

Jelena Vuckovic

List of Publications by Year in descending order

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484
papers

26,793
citations

5876

81
h-index

6630

156
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495
all docs

495
docs citations

495
times ranked

15376
citing authors

#	ARTICLE	IF	CITATIONS
1	Photonic quantum technologies. <i>Nature Photonics</i> , 2009, 3, 687-695.	15.6	1,743
2	Indistinguishable photons from a single-photon device. <i>Nature</i> , 2002, 419, 594-597.	13.7	1,347
3	Inverse design in nanophotonics. <i>Nature Photonics</i> , 2018, 12, 659-670.	15.6	1,014
4	Triggered Single Photons from a Quantum Dot. <i>Physical Review Letters</i> , 2001, 86, 1502-1505.	2.9	861
5	Controlling the Spontaneous Emission Rate of Single Quantum Dots in a Two-Dimensional Photonic Crystal. <i>Physical Review Letters</i> , 2005, 95, 013904.	2.9	805
6	Inverse design and demonstration of a compact and broadband on-chip wavelength demultiplexer. <i>Nature Photonics</i> , 2015, 9, 374-377.	15.6	756
7	Monolayer semiconductor nanocavity lasers with ultralow thresholds. <i>Nature</i> , 2015, 520, 69-72.	13.7	713
8	Controlling cavity reflectivity with a single quantum dot. <i>Nature</i> , 2007, 450, 857-861.	13.7	580
9	Efficient Source of Single Photons: A Single Quantum Dot in a Micropost Microcavity. <i>Physical Review Letters</i> , 2002, 89, 233602.	2.9	575
10	Ultrafast photonic crystal nanocavity laser. <i>Nature Physics</i> , 2006, 2, 484-488.	6.5	530
11	Coherent generation of non-classical light on a chip via photon-induced tunnelling and blockade. <i>Nature Physics</i> , 2008, 4, 859-863.	6.5	515
12	Defect modes of a two-dimensional photonic crystal in an optically thin dielectric slab. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999, 16, 275.	0.9	445
13	Controlled Phase Shifts with a Single Quantum Dot. <i>Science</i> , 2008, 320, 769-772.	6.0	397
14	Ultralow-threshold electrically pumped quantum-dot photonic-crystal nanocavity laser. <i>Nature Photonics</i> , 2011, 5, 297-300.	15.6	377
15	Dipole Induced Transparency in Drop-Filter Cavity-Waveguide Systems. <i>Physical Review Letters</i> , 2006, 96, 153601.	2.9	366
16	Waveguiding in planar photonic crystals. <i>Applied Physics Letters</i> , 2000, 77, 1937-1939.	1.5	354
17	Design and fabrication of silicon photonic crystal optical waveguides. <i>Journal of Lightwave Technology</i> , 2000, 18, 1402-1411.	2.7	347
18	Engineered quantum dot single-photon sources. <i>Reports on Progress in Physics</i> , 2012, 75, 126503.	8.1	323

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19	Deterministic Coupling of a Single Nitrogen Vacancy Center to a Photonic Crystal Cavity. Nano Letters, 2010, 10, 3922-3926.	4.5	309
20	Quantum cryptography with a photon turnstile. Nature, 2002, 420, 762-762.	13.7	272
21	Surface plasmon enhanced light-emitting diode. IEEE Journal of Quantum Electronics, 2000, 36, 1131-1144.	1.0	262
22	Design of photonic crystal microcavities for cavity QED. Physical Review E, 2001, 65, 016608.	0.8	260
23	4H-silicon-carbide-on-insulator for integrated quantum and nonlinear photonics. Nature Photonics, 2020, 14, 330-334.	15.6	247
24	Nanophotonic computational design. Optics Express, 2013, 21, 13351.	1.7	242
25	Quantum Simulators: Architectures and Opportunities. PRX Quantum, 2021, 2, .	3.5	229
26	Enhanced high-harmonic generation from an all-dielectric metasurface. Nature Physics, 2018, 14, 1006-1010.	6.5	215
27	Optimization of the Q factor in photonic crystal microcavities. IEEE Journal of Quantum Electronics, 2002, 38, 850-856.	1.0	207
28	Fabrication-constrained nanophotonic inverse design. Scientific Reports, 2017, 7, 1786.	1.6	200
29	Electrical Control of Silicon Photonic Crystal Cavity by Graphene. Nano Letters, 2013, 13, 515-518.	4.5	193
30	Resonant Excitation of a Quantum Dot Strongly Coupled to a Photonic Crystal Nanocavity. Physical Review Letters, 2010, 104, 073904.	2.9	192
31	General recipe for designing photonic crystal cavities. Optics Express, 2005, 13, 5961.	1.7	191
32	Inverse Design and Demonstration of a Compact on-Chip Narrowband Three-Channel Wavelength Demultiplexer. ACS Photonics, 2018, 5, 301-305.	3.2	183
33	Development of Quantum Interconnects (QulCs) for Next-Generation Information Technologies. PRX Quantum, 2021, 2, .	3.5	172
34	Room temperature 16 μ m electroluminescence from Ge light emitting diode on Si substrate. Optics Express, 2009, 17, 10019.	1.7	165
35	Generating arbitrary topological windings of a non-Hermitian band. Science, 2021, 371, 1240-1245.	6.0	159
36	Loss-Enabled Sub-Poissonian Light Generation in a Bimodal Nanocavity. Physical Review Letters, 2012, 108, 183601.	2.9	158

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37	Ultrafast Photon-Photon Interaction in a Strongly Coupled Quantum Dot-Cavity System. Physical Review Letters, 2012, 108, 093604.	2.9	155
38	Photonic crystal microcavities for cavity quantum electrodynamics with a single quantum dot. Applied Physics Letters, 2003, 82, 2374-2376.	1.5	151
39	Second harmonic generation in gallium phosphide photonic crystal nanocavities with ultralow continuous wave pump power. Optics Express, 2009, 17, 22609.	1.7	147
40	Inverse-designed non-reciprocal pulse router for chip-based LiDAR. Nature Photonics, 2020, 14, 369-374.	15.6	145
41	Generation and transfer of single photons on a photonic crystal chip. Optics Express, 2007, 15, 5550.	1.7	144
42	Control of two-dimensional excitonic light emission via photonic crystal. 2D Materials, 2014, 1, 011001.	2.0	144
43	Efficient photonic crystal cavity-waveguide couplers. Applied Physics Letters, 2007, 90, 073102.	1.5	143
44	On-chip integrated laser-driven particle accelerator. Science, 2020, 367, 79-83.	6.0	141
45	Photonic crystal nanocavity array laser. Optics Express, 2005, 13, 8819.	1.7	139
46	High quality two-dimensional photonic crystal slab cavities. Applied Physics Letters, 2001, 79, 4289-4291.	1.5	138
47	Enhanced single-photon emission from a quantum dot in a micropost microcavity. Applied Physics Letters, 2003, 82, 3596-3598.	1.5	136
48	Revealing multiple classes of stable quantum emitters in hexagonal boron nitride with correlated optical and electron microscopy. Nature Materials, 2020, 19, 534-539.	13.3	130
49	Scalable Quantum Photonics with Single Color Centers in Silicon Carbide. Nano Letters, 2017, 17, 1782-1786.	4.5	129
50	Entanglement Formation and Violation of Bell's Inequality with a Semiconductor Single Photon Source. Physical Review Letters, 2004, 92, 037903.	2.9	125
51	Strong enhancement of direct transition photoluminescence with highly tensile-strained Ge grown by molecular beam epitaxy. Applied Physics Letters, 2011, 98, 011111.	1.5	123
52	Dipole induced transparency in waveguide coupled photonic crystal cavities. Optics Express, 2008, 16, 12154.	1.7	120
53	Inverse design and implementation of a wavelength demultiplexing grating coupler. Scientific Reports, 2014, 4, 7210.	1.6	118
54	Local quantum dot tuning on photonic crystal chips. Applied Physics Letters, 2007, 90, 213110.	1.5	117

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55	Spatiotemporal light control with frequency-gradient metasurfaces. <i>Science</i> , 2019, 365, 374-377.	6.0	117
56	Ultrafast direct modulation of a single-mode photonic crystal nanocavity light-emitting diode. <i>Nature Communications</i> , 2011, 2, 539.	5.8	116
57	Finite-difference time-domain calculation of spontaneous emission lifetime in a microcavity. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999, 16, 465.	0.9	115
58	Fully-automated optimization of grating couplers. <i>Optics Express</i> , 2018, 26, 4023.	1.7	115
59	Quantum dot single-photon sources with ultra-low multi-photon probability. <i>Npj Quantum Information</i> , 2018, 4, .	2.8	114
60	Objective-first design of high-efficiency, small-footprint couplers between arbitrary nanophotonic waveguide modes. <i>Optics Express</i> , 2012, 20, 7221.	1.7	113
61	Strongly Cavity-Enhanced Spontaneous Emission from Silicon-Vacancy Centers in Diamond. <i>Nano Letters</i> , 2018, 18, 1360-1365.	4.5	112
62	Coherent Generation of Nonclassical Light on Chip via Detuned Photon Blockade. <i>Physical Review Letters</i> , 2015, 114, 233601.	2.9	109
63	Inverse-designed diamond photonics. <i>Nature Communications</i> , 2019, 10, 3309.	5.8	109
64	Single-photon generation with InAs quantum dots. <i>New Journal of Physics</i> , 2004, 6, 89-89.	1.2	107
65	Strain-Induced Pseudoheterostructure Nanowires Confining Carriers at Room Temperature with Nanoscale-Tunable Band Profiles. <i>Nano Letters</i> , 2013, 13, 3118-3123.	4.5	107
66	Submicrosecond correlations in photoluminescence from InAs quantum dots. <i>Physical Review B</i> , 2004, 69, .	1.1	106
67	Experimental demonstration of the slow group velocity of light in two-dimensional coupled photonic crystal microcavity arrays. <i>Applied Physics Letters</i> , 2005, 86, 111102.	1.5	103
68	High-brightness single photon source from a quantum dot in a directional-emission nanocavity. <i>Optics Express</i> , 2009, 17, 14618.	1.7	101
69	Single-Cell Photonic Nanocavity Probes. <i>Nano Letters</i> , 2013, 13, 4999-5005.	4.5	99
70	Experimental and theoretical confirmation of Bloch-mode light propagation in planar photonic crystal waveguides. <i>Applied Physics Letters</i> , 2002, 80, 1689-1691.	1.5	98
71	Two-dimensional coupled photonic crystal resonator arrays. <i>Applied Physics Letters</i> , 2004, 84, 161-163.	1.5	98
72	Nanobeam photonic crystal cavity quantum dot laser. <i>Optics Express</i> , 2010, 18, 8781.	1.7	96

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73	Design of plasmon cavities for solid-state cavity quantum electrodynamics applications. Applied Physics Letters, 2007, 90, 033113.	1.5	93
74	Local tuning of photonic crystal cavities using chalcogenide glasses. Applied Physics Letters, 2008, 92, .	1.5	93
75	Integrated quantum optical networks based on quantum dots and photonic crystals. New Journal of Physics, 2011, 13, 055025.	1.2	92
76	Nanophotonic inverse design with SPINS: Software architecture and practical considerations. Applied Physics Reviews, 2020, 7, .	5.5	92
77	Ultrafast nonlinear optical tuning of photonic crystal cavities. Applied Physics Letters, 2007, 90, 091118.	1.5	90
78	Quantum Properties of Dichroic Silicon Vacancies in Silicon Carbide. Physical Review Applied, 2018, 9, .	1.5	90
79	Integrated Quantum Photonics with Silicon Carbide: Challenges and Prospects. PRX Quantum, 2020, 1, .	3.5	89
80	Coupling of PbS quantum dots to photonic crystal cavities at room temperature. Applied Physics Letters, 2005, 87, 241102.	1.5	86
81	Optical parametric oscillation in silicon carbide nanophotonics. Optica, 2020, 7, 1139.	4.8	86
82	Phonon mediated off-resonant quantum dot-cavity coupling under resonant excitation of the quantum dot. Physical Review B, 2011, 84, .	1.1	85
83	Probing the ladder of dressed states and nonclassical light generation in quantum-dot-cavity QED. Physical Review A, 2012, 85, .	1.0	85
84	Fast Electrical Control of a Quantum Dot Strongly Coupled to a Photonic-Crystal Cavity. Physical Review Letters, 2010, 104, 047402.	2.9	84
85	Finite-difference time-domain calculation of the spontaneous emission coupling factor in optical microcavities. IEEE Journal of Quantum Electronics, 1999, 35, 1168-1175.	1.0	82
86	Cavity quantum electrodynamics with a single quantum dot coupled to a photonic molecule. Physical Review B, 2012, 86, .	1.1	80
87	On-Chip Generation, Routing, and Detection of Resonance Fluorescence. Nano Letters, 2015, 15, 5208-5213.	4.5	79
88	Analytical level set fabrication constraints for inverse design. Scientific Reports, 2019, 9, 8999.	1.6	76
89	Quantum optics of soliton microcombs. Nature Photonics, 2022, 16, 52-58.	15.6	73
90	Optimization of three-dimensional micropost microcavities for cavity quantum electrodynamics. Physical Review A, 2002, 66, .	1.0	72

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91	Direct Bandgap Light Emission from Strained Germanium Nanowires Coupled with High-Q Nanophotonic Cavities. <i>Nano Letters</i> , 2016, 16, 2168-2173.	4.5	72
92	Methods for controlling positions of guided modes of photonic-crystal waveguides. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2001, 18, 1362.	0.9	70
93	Analysis of the Purcell effect in photonic and plasmonic crystals with losses. <i>Optics Express</i> , 2010, 18, 16546.	1.7	70
94	Design and analysis of photonic crystal coupled cavity arrays for quantum simulation. <i>Physical Review B</i> , 2012, 86, .	1.1	70
95	Nonclassical higher-order photon correlations with a quantum dot strongly coupled to a photonic-crystal nanocavity. <i>Physical Review A</i> , 2014, 90, .	1.0	70
96	Focus on Single Photons on Demand. <i>New Journal of Physics</i> , 2004, 6, .	1.2	69
97	Vertical-Substrate MPCVD Epitaxial Nanodiamond Growth. <i>Nano Letters</i> , 2017, 17, 1489-1495.	4.5	68
98	Inverse-Designed Photonics for Semiconductor Foundries. <i>ACS Photonics</i> , 2020, 7, 569-575.	3.2	68
99	Coupled mode theory for photonic crystal cavity-waveguide interaction. <i>Optics Express</i> , 2005, 13, 5064.	1.7	67
100	Enhanced light emission in photonic crystal nanocavities with Erbium-doped silicon nanocrystals. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	67
101	Inverse Design and Demonstration of Broadband Grating Couplers. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2019, 25, 1-7.	1.9	67
102	Gallium phosphide photonic crystal nanocavities in the visible. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	66
103	Dispersive properties and large Kerr nonlinearities using dipole-induced transparency in a single-sided cavity. <i>Physical Review A</i> , 2006, 73, .	1.0	65
104	Multiply resonant photonic crystal nanocavities for nonlinear frequency conversion. <i>Optics Express</i> , 2011, 19, 22198.	1.7	65
105	Photonic crystal cavities in cubic (3C) polytype silicon carbide films. <i>Optics Express</i> , 2013, 21, 32623.	1.7	65
106	Generation of nonclassical states of light via photon blockade in optical nanocavities. <i>Physical Review A</i> , 2010, 81, .	1.0	64
107	Three-dimensionally confined modes in micropost microcavities: quality factors and Purcell factors. <i>IEEE Journal of Quantum Electronics</i> , 2002, 38, 170-177.	1.0	63
108	Photonic crystals for confining, guiding, and emitting light. <i>IEEE Nanotechnology Magazine</i> , 2002, 1, 4-11.	1.1	62

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109	Photonic crystal cavities in silicon dioxide. Applied Physics Letters, 2010, 96, .	1.5	62
110	Ultrafast photonic crystal lasers. Laser and Photonics Reviews, 2008, 2, 264-274.	4.4	60
111	Genetic optimization of photonic bandgap structures. Optics Express, 2007, 15, 8218.	1.7	53
112	Signatures of two-photon pulses from a quantum two-level system. Nature Physics, 2017, 13, 649-654.	6.5	53
113	Photon blockade in two-emitter-cavity systems. Physical Review A, 2017, 96, .	1.0	53
114	Nanodiamond Integration with Photonic Devices. Laser and Photonics Reviews, 2019, 13, 1800316.	4.4	50
115	Photon blockade with a four-level quantum emitter coupled to a photonic-crystal nanocavity. New Journal of Physics, 2013, 15, 025014.	1.2	47
116	Vibronic States and Their Effect on the Temperature and Strain Dependence of Silicon-Vacancy Qubits in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" \rangle \langle \text{mml:mn} \rangle 4 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle \text{H} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle - \langle \text{mml:math} \rangle$ $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll" \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Si} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle$ $\text{mathvariant="normal"} \rangle \text{C} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$.	1.5	47
117	Scattering into one-dimensional waveguides from a coherently-driven quantum-optical system. Physical Review Applied, 2020, 13, . Quantum - the Open Journal for Quantum Science, 0, 2, 69.	0.0	47
118	Inverse design of nanophotonic structures using complementary convex optimization. Optics Express, 2010, 18, 3793.	1.7	46
119	Nonlinear temporal dynamics of a strongly coupled quantum-dot cavity system. Physical Review A, 2012, 85, .	1.0	46
120	Hybrid Group IV Nanophotonic Structures Incorporating Diamond Silicon-Vacancy Color Centers. Nano Letters, 2016, 16, 212-217.	4.5	46
121	Polarization control and sensing with two-dimensional coupled photonic crystal microcavity arrays. Optics Letters, 2005, 30, 982.	1.7	45
122	Local temperature control of photonic crystal devices via micron-scale electrical heaters. Applied Physics Letters, 2009, 95, 043102.	1.5	45
123	Linewidth broadening of a quantum dot coupled to an off-resonant cavity. Physical Review B, 2010, 82, .	1.1	45
124	Linewidth narrowing and Purcell enhancement in photonic crystal cavities on an Er-doped silicon nitride platform. Optics Express, 2010, 18, 2601.	1.7	45
125	Dynamical modeling of pulsed two-photon interference. New Journal of Physics, 2016, 18, 113053.	1.2	45
126	Photon Blockade in Weakly Driven Cavity Quantum Electrodynamics Systems with Many Emitters. Physical Review Letters, 2019, 122, 243602.	2.9	45

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127	Silicon-based photonic crystal nanocavity light emitters. <i>Applied Physics Letters</i> , 2006, 89, 221101.	1.5	44
128	Inverse design of a three-dimensional nanophotonic resonator. <i>Optics Express</i> , 2011, 19, 10563.	1.7	44
129	Second harmonic generation in GaP photonic crystal waveguides. <i>Applied Physics Letters</i> , 2011, 98, 263113.	1.5	44
130	A fluorescence sandwich immunoassay for the real-time continuous detection of glucose and insulin in live animals. <i>Nature Biomedical Engineering</i> , 2021, 5, 53-63.	11.6	44
131	Low-threshold surface-passivated photonic crystal nanocavity laser. <i>Applied Physics Letters</i> , 2007, 91, 071124.	1.5	43
132	Optical fiber tips functionalized with semiconductor photonic crystal cavities. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	43
133	Characterization of optical and spin properties of single tin-vacancy centers in diamond nanopillars. <i>Physical Review B</i> , 2019, 99, .	1.1	43
134	Visible Photoluminescence from Cubic (3C) Silicon Carbide Microdisks Coupled to High Quality Whispering Gallery Modes. <i>ACS Photonics</i> , 2015, 2, 14-19.	3.2	42
135	Ultrafast Polariton-Phonon Dynamics of Strongly Coupled Quantum Dot-Nanocavity Systems. <i>Physical Review X</i> , 2015, 5, .	2.8	41
136	Complete Coherent Control of a Quantum Dot Strongly Coupled to a Nanocavity. <i>Scientific Reports</i> , 2016, 6, 25172.	1.6	41
137	Cavity-Enhanced Raman Emission from a Single Color Center in a Solid. <i>Physical Review Letters</i> , 2018, 121, 083601.	2.9	41
138	Generation of Tin-Vacancy Centers in Diamond via Shallow Ion Implantation and Subsequent Diamond Overgrowth. <i>Nano Letters</i> , 2020, 20, 1614-1619.	4.5	40
139	Narrow-Linewidth Tin-Vacancy Centers in a Diamond Waveguide. <i>ACS Photonics</i> , 2020, 7, 2356-2361.	3.2	39
140	Electrically pumped photonic crystal nanocavity light sources using a laterally doped p-i-n junction. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	38
141	Computational Bounds for Photonic Design. <i>ACS Photonics</i> , 2019, 6, 1232-1239.	3.2	38
142	Generation of Non-Classical Light Using Semiconductor Quantum Dots. <i>Advanced Quantum Technologies</i> , 2020, 3, 1900007.	1.8	38
143	Spectrally reconfigurable quantum emitters enabled by optimized fast modulation. <i>Npj Quantum Information</i> , 2020, 6, .	2.8	38
144	Direct band Ge photoluminescence near 1.6 μ m coupled to Ge-on-Si microdisk resonators. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	37

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145	Theory of electro-optic modulation via a quantum dot coupled to a nano-resonator. Optics Express, 2010, 18, 3974.	1.7	37
146	On-Chip Laser-Power Delivery System for Dielectric Laser Accelerators. Physical Review Applied, 2018, 9, .	1.5	37
147	Site-Controlled Quantum Emitters in Monolayer MoSe ₂ . Nano Letters, 2021, 21, 2376-2381.	4.5	37
148	Second harmonic generation in photonic crystal cavities in (111)-oriented GaAs. Applied Physics Letters, 2013, 103, .	1.5	36
149	Multimode nanobeam cavities for nonlinear optics: high quality resonances separated by an octave. Optics Express, 2014, 22, 26498.	1.7	36
150	Second-Harmonic Generation in GaAs Photonic Crystal Cavities in (111)B and (001) Crystal Orientations. ACS Photonics, 2014, 1, 516-523.	3.2	36
151	Fast quantum dot single photon source triggered at telecommunications wavelength. Applied Physics Letters, 2011, 98, .	1.5	35
152	Photonic Technologies for Quantum Information Processing. Quantum Information Processing, 2004, 3, 215-231.	1.0	34
153	Few-photon scattering and emission from low-dimensional quantum systems. Physical Review B, 2018, 98, .	1.1	34
154	Crux of Using the Cascaded Emission of a Three-Level Quantum Ladder System to Generate Indistinguishable Photons. Physical Review Letters, 2020, 125, 233605.	2.9	34
155	Quantum Photonic Interface for Tin-Vacancy Centers in Diamond. Physical Review X, 2021, 11, .	2.8	34
156	Generation and manipulation of nonclassical light using photonic crystals. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 32, 466-470.	1.3	33
157	All Optical Switching With a Single Quantum Dot Strongly Coupled to a Photonic Crystal Cavity. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1812-1817.	1.9	33
158	Self-homodyne measurement of a dynamic Mollow triplet in the solid state. Nature Photonics, 2016, 10, 163-166.	15.6	33
159	Complete coherent control of silicon vacancies in diamond nanopillars containing single defect centers. Optica, 2017, 4, 1317.	4.8	33
160	A direct analysis of photonic nanostructures. Optics Express, 2006, 14, 3472.	1.7	31
161	Enhanced two-photon processes in single quantum dots inside photonic crystal nanocavities. Physical Review B, 2010, 81, .	1.1	31
162	Photonic Inverse Design of On-Chip Microresonators. ACS Photonics, 2022, 9, 1875-1881.	3.2	31

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163	Ultra-low power fiber-coupled gallium arsenide photonic crystal cavity electro-optic modulator. Optics Express, 2011, 19, 7530.	1.7	30
164	Phonon-mediated coupling between quantum dots through an off-resonant microcavity. Physical Review B, 2012, 85, .	1.1	30
165	Observation of Transparency of Erbium-doped Silicon nitride in photonic crystal nanobeam cavities. Optics Express, 2010, 18, 13863.	1.7	29
166	A photonic crystal cavity-optical fiber tip nanoparticle sensor for biomedical applications. Applied Physics Letters, 2012, 100, .	1.5	29
167	Pulsed Rabi oscillations in quantum two-level systems: beyond the area theorem. Quantum Science and Technology, 2018, 3, 014006.	2.6	29
168	Dispersion Engineering With Photonic Inverse Design. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-6.	1.9	29
169	Sum-frequency generation in doubly resonant GaP photonic crystal nanocavities. Applied Physics Letters, 2010, 97, 043103.	1.5	28
170	Nanobeam photonic crystal cavity light-emitting diodes. Applied Physics Letters, 2011, 99, 071105.	1.5	28
171	Proposed Coupling of an Electron Spin in a Semiconductor Quantum Dot to a Nanosize Optical Cavity. Physical Review Letters, 2013, 111, 027402.	2.9	28
172	Dynamics of quantum dot photonic crystal lasers. Applied Physics Letters, 2007, 90, 151102.	1.5	27
173	Tunable-wavelength second harmonic generation from GaP photonic crystal cavities coupled to fiber tapers. Optics Express, 2010, 18, 12176.	1.7	27
174	Electrically controlled modulation in a photonic crystal nanocavity. Optics Express, 2009, 17, 15409.	1.7	26
175	Plasmonic enhancement of emission from Si-nanocrystals. Applied Physics Letters, 2009, 94, 013106.	1.5	26
176	Lithographic positioning of fluorescent molecules on high-Q photonic crystal cavities. Applied Physics Letters, 2009, 95, 123113.	1.5	26
177	Probing of single quantum dot dressed states via an off-resonant cavity. Physical Review B, 2011, 84, .	1.1	26
178	Cavity-enhanced direct band electroluminescence near 1550 nm from germanium microdisk resonator diode on silicon. Applied Physics Letters, 2011, 98, 211101.	1.5	26
179	Single photons for quantum information systems. Progress in Informatics, 2005, , 5.	0.2	26
180	Photoluminescence from $\text{In}_{0.5}\text{Ga}_{0.5}\text{As}/\text{GaP}$ quantum dots coupled to photonic crystal cavities. Physical Review B, 2012, 85, .	1.1	25

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181	Submicrometer All-Optical Digital Memory and Integration of Nanoscale Photonic Devices Without Isolators. <i>Journal of Lightwave Technology</i> , 2004, 22, 2316-2322.	2.7	24
182	Enhanced light emission from erbium doped silicon nitride in plasmonic metal-insulator-metal structures. <i>Optics Express</i> , 2009, 17, 20642.	1.7	24
183	Deterministically charged quantum dots in photonic crystal nanoresonators for efficient spin-photon interfaces. <i>New Journal of Physics</i> , 2013, 15, 113056.	1.2	24
184	Electrically Driven Photonic Crystal Nanocavity Devices. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2012, 18, 1700-1710.	1.9	23
185	Inverse-Designed Photonic Crystal Circuits for Optical Beam Steering. <i>ACS Photonics</i> , 2021, 8, 3085-3093.	3.2	23
186	Multiply resonant high quality photonic crystal nanocavities. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	22
187	Graphene for Tunable Nanophotonic Resonators. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2014, 20, 68-71.	1.9	22
188	On-Chip Architecture for Self-Homodyned Nonclassical Light. <i>Physical Review Applied</i> , 2017, 7, .	1.5	22
189	An optical modulator based on a single strongly coupled quantum dot - cavity system in a p-i-n junction. <i>Optics Express</i> , 2009, 17, 18651.	1.7	21
190	Coupled fiber taper extraction of 153 nm photoluminescence from erbium doped silicon nitride photonic crystal cavities. <i>Optics Express</i> , 2010, 18, 5964.	1.7	21
191	Effect of photogenerated carriers on the spectral diffusion of a quantum dot coupled to a photonic crystal cavity. <i>Physical Review B</i> , 2011, 84, .	1.1	21
192	Creating boundaries along a synthetic frequency dimension. <i>Nature Communications</i> , 2022, 13, .	5.8	21
193	Photoluminescence from silicon dioxide photonic crystal cavities with embedded silicon nanocrystals. <i>Physical Review B</i> , 2010, 81, .	1.1	20
194	Tuning the photon statistics of a strongly coupled nanophotonic system. <i>Physical Review A</i> , 2017, 95, .	1.0	20
195	Room temperature lasing unraveled by a strong resonance between gain and parasitic absorption in uniaxially strained germanium. <i>Physical Review B</i> , 2018, 97, .	1.1	20
196	Quantum dots in photonic crystals: From quantum information processing to single photon nonlinear optics. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2009, 7, 56-62.	1.0	19
197	Electrical Tuning of Tin-Vacancy Centers in Diamond. <i>Physical Review Applied</i> , 2021, 15, .	1.5	19
198	Self-homodyne-enabled generation of indistinguishable photons. <i>Optica</i> , 2016, 3, 931.	4.8	19

#	ARTICLE	IF	CITATIONS
199	Low-overhead distribution strategy for simulation and optimization of large-area metasurfaces. Npj Computational Materials, 2022, 8, .	3.5	19
200	Data-driven acceleration of photonic simulations. Scientific Reports, 2019, 9, 19728.	1.6	18
201	Fabrication of InAs quantum dots in AlAs/GaAs DBR pillar microcavities for single photon sources. Journal of Applied Physics, 2005, 97, 073507.	1.1	17
202	Off-resonant coupling between a single quantum dot and a nanobeam photonic crystal cavity. Applied Physics Letters, 2011, 99, 251907.	1.5	17
203	Focus on integrated quantum optics. New Journal of Physics, 2013, 15, 035016.	1.2	16
204	Heuristic methods and performance bounds for photonic design. Optics Express, 2021, 29, 2827.	1.7	16
205	Efficient terahertz room-temperature photonic crystal nanocavity laser. Applied Physics Letters, 2007, 91, 071126.	1.5	15
206	Photonic Crystal and Plasmonic Silicon-Based Light Sources. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 132-140.	1.9	15
207	Bichromatic driving of a solid-state cavity quantum electrodynamics system. New Journal of Physics, 2012, 14, 013028.	1.2	15
208	Nonlinear frequency conversion using high-quality modes in GaAs nanobeam cavities. Optics Letters, 2014, 39, 5673.	1.7	15
209	Observation of Mollow Triplets with Tunable Interactions in Double Lambda Systems of Individual Hole Spins. Physical Review Letters, 2017, 118, 013602.	2.9	15
210	A carrier relaxation bottleneck probed in single InGaAs quantum dots using integrated superconducting single photon detectors. Applied Physics Letters, 2014, 105, 081107.	1.5	14
211	Beating absorption in solid-state high harmonics. Communications Physics, 2020, 3, .	2.0	14
212	Low-energy electron beam focusing in self-organized porous alumina vacuum windows. Applied Physics Letters, 2000, 76, 3635-3637.	1.5	13
213	Initialization of a spin qubit in a site-controlled nanowire quantum dot. New Journal of Physics, 2016, 18, 053024.	1.2	13
214	Hybrid metal-dielectric nanocavity for enhanced light-matter interactions. Optical Materials Express, 2017, 7, 231.	1.6	13
215	Fabrication and Analysis of Epitaxially Grown Ge _{1-x} Sn _x Microdisk Resonator With 20-nm Free-Spectral Range. IEEE Photonics Technology Letters, 2011, 23, 1535-1537.	1.3	12
216	Low power resonant optical excitation of an optomechanical cavity. Optics Express, 2011, 19, 1429.	1.7	12

#	ARTICLE	IF	CITATIONS
217	Ge microdisk with lithographically-tunable strain using CMOS-compatible process. Optics Express, 2015, 23, 33249.	1.7	12
218	Attosecond nanophotonics. Nature Photonics, 2017, 11, 210-212.	15.6	12
219	Generation of single photons and correlated photon pairs using InAs quantum dots. Fortschritte Der Physik, 2004, 52, 1180-1188.	1.5	11
220	Controlling the spontaneous emission rate of single quantum dots in a 2D photonic crystal. , 2005, , .		11
221	Spontaneous emission control in high-extraction efficiency plasmonic crystals. Optics Express, 2008, 16, 426.	1.7	11
222	Photo-oxidative tuning of individual and coupled GaAs photonic crystal cavities. Optics Express, 2014, 22, 15017.	1.7	11
223	Emission redistribution from a quantum dot-bowtie nanoantenna. Journal of Nanophotonics, 2016, 10, 033509.	0.4	11
224	An efficient source of single photons: a single quantum dot in a micropost microcavity. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 17, 564-567.	1.3	10
225	Analysis of a quantum nondemolition measurement scheme based on Kerr nonlinearity in photonic crystal waveguides. Optics Express, 2007, 15, 5559.	1.7	10
226	Investigation of germanium quantum-well light sources. Optics Express, 2015, 23, 22424.	1.7	10
227	Nonclassical Light Generation From III-V and Group-IV Solid-State Cavity Quantum Systems. Advances in Atomic, Molecular and Optical Physics, 2017, 66, 111-179.	2.3	10
228	Design of a tapered slot waveguide dielectric laser accelerator for sub-relativistic electrons. Optics Express, 2018, 26, 22801.	1.7	10
229	Pulsed coherent drive in the Jaynes-Cummings model. Physical Review A, 2018, 98, .	1.0	10
230	High-Quality GaAs Planar Coalescence over Embedded Dielectric Microstructures Using an All-MBE Approach. Crystal Growth and Design, 2019, 19, 3085-3091.	1.4	10
231	Bounds for Scattering from Absorptionless Electromagnetic Structures. Physical Review Applied, 2020, 14, .	1.5	10
232	Single photons on demand. Europhysics News, 2005, 36, 56-8.	0.1	9
233	A direct measurement of the electronic structure of Si nanocrystals and its effect on optoelectronic properties. Journal of Applied Physics, 2014, 115, 103515.	1.1	9
234	Ultrafast coherent manipulation of trions in site-controlled nanowire quantum dots. Optica, 2016, 3, 1430.	4.8	9

#	ARTICLE	IF	CITATIONS
235	CAVITY-ENHANCED SINGLE PHOTONS FROM A QUANTUM DOT. Advanced Series in Applied Physics, 2004, , 133-175.	0.0	8
236	Patterned femtosecond laser excitation of terahertz leaky modes in GaAs photonic crystals. Applied Physics Letters, 2006, 89, 241112.	1.5	7
237	Hole-spin pumping and repumping in a p -type $\hat{\Gamma}$ -doped InAs quantum dot. Physical Review B, 2014, 90, .	1.1	7
238	Focus on cavity and circuit quantum electrodynamics in solids. New Journal of Physics, 2015, 17, 010201.	1.2	7
239	Optimal two-photon excitation of bound states in non-Markovian waveguide QED. Physical Review A, 2021, 104, .	1.0	7
240	Photonic crystal resonators for inverse-designed multi-dimensional optical interconnects. Optics Letters, 2022, 47, 3063.	1.7	7
241	Time-resolved lasing action from single and coupled photonic crystal nanocavity array lasers emitting in the telecom band. Journal of Applied Physics, 2009, 105, 093110.	1.1	6
242	Proposal for high-speed and high-fidelity electron-spin initialization in a negatively charged quantum dot coupled to a microcavity in a weak external magnetic field. Physical Review A, 2010, 82, .	1.0	6
243	Differential reflection spectroscopy of a single quantum dot strongly coupled to a photonic crystal cavity. Applied Physics Letters, 2010, 97, 053111.	1.5	6
244	Analytic and geometric properties of scattering from periodically modulated quantum-optical systems. Physical Review A, 2020, 102, .	1.0	6
245	An efficient source of single photons: a single quantum dot in a micropost microcavity. , 0, , .		5
246	Point-coupling Hamiltonian for frequency-independent linear optical devices. Physical Review A, 2019, 100, .	1.0	5
247	Silicon-Compatible Fabrication of Inverse Woodpile Photonic Crystals with a Complete Band Gap. ACS Photonics, 2019, 6, 368-373.	3.2	5
248	Control Design for Inhomogeneous-Broadening Compensation in Single-Photon Transducers. Physical Review Applied, 2021, 16, .	1.5	5
249	Design of photonic crystal optical microcavities. , 2001, , .		4
250	Indistinguishable single photons from a quantum dot. Physica Status Solidi (B): Basic Research, 2003, 238, 305-308.	0.7	4
251	Dipole induced transparency in cavity-waveguide drop-filter systems. , 2006, , .		4
252	Electrical properties of GaAs photonic crystal cavity lateral p-i-n diodes. Applied Physics Letters, 2012, 101, 011104.	1.5	4

#	ARTICLE	IF	CITATIONS
253	Cavity-enhanced single photons from a quantum dot (Invited Paper). , 2005, , .		3
254	Dynamics of Quantum Dot Photonic Crystal Lasers. , 2007, , .		3
255	(Invited) Characterizations of Direct Band Gap Photoluminescence and Electroluminescence from epi-Ge on Si. ECS Transactions, 2010, 33, 545-554.	0.3	3
256	Quasiresonant excitation of InP/InGaP quantum dots using second harmonic generated in a photonic crystal cavity. Applied Physics Letters, 2012, 101, .	1.5	3
257	Ultra-low power all-optical switching with a single quantum dot in a photonic-crystal cavity. Proceedings of SPIE, 2013, , .	0.8	3
258	Towards on-chip generation, routing and detection of non-classical light. , 2015, , .		3
259	Convex restrictions in physical design. Scientific Reports, 2021, 11, 12976.	1.6	3
260	4H-SiC-on-Insulator Platform for Quantum Photonics. , 2019, , .		3
261	Electrically driven photonic crystal nanocavity devices. , 2012, , .		3
262	Fast quantum dot single photon source triggered at telecommunications wavelength. , 2011, , .		3
263	Maximum-likelihood decoding of Reed-Solomon codes. , 0, , .		2
264	Waveguiding in planar photonic crystals. , 2001, , .		2
265	Nano-scale optical and quantum optical devices based on photonic crystals. , 0, , .		2
266	Probing the interaction between a single quantum dot and a photonic crystal cavity. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 2808-2815.	0.8	2
267	Ultrafast photonic crystal nanocavity lasers and optical switches. , 2008, , .		2
268	Ge quantum well resonator modulators. , 2011, , .		2
269	A new approach to Ge lasers with low pump power. , 2012, , .		2
270	Direct bandgap germanium nanowires inferred from 5.0% uniaxial tensile strain. , 2013, , .		2

#	ARTICLE	IF	CITATIONS
271	A novel, highly-strained structure with an integrated optical cavity for a low threshold germanium laser. , 2015, , .		2
272	Inverse spectral design of Kerr microcomb pulses. , 2021, , .		2
273	Objective-First Nanophotonic Design. Topics in Applied Physics, 2013, , 147-173.	0.4	2
274	Inverse-designed optical interconnect based on multimode photonics and mode-division multiplexing. , 2020, , .		2
275	Single-cell Photonic Nanocavity Probes. , 2013, , .		2
276	Inverse Design of a Wavelength Demultiplexer. , 2016, , .		2
277	Inverse Designed Cavity-Waveguide Couplers. , 2019, , .		2
278	Enhancing Superradiance in Spectrally Inhomogeneous Cavity QED Systems with Dynamic Modulation. ACS Photonics, 2022, 9, 2467-2472.	3.2	2
279	Photonic Crystal Nanocavity Lasers. Optics and Photonics News, 1999, 10, 21.	0.4	1
280	<title>FDTD calculation of the spontaneous emission coupling factor in optical microcavities</title>. , 2000, , .		1
281	Experimental characterization of dispersion properties of leaky modes in planar photonic crystal waveguide. , 0, , .		1
282	Photonic crystal light sources and waveguides. , 0, , .		1
283	Two-dimensional porous silicon photonic crystal light emitters. , 2006, , .		1
284	Quantum networking with quantum dots coupled to micro-cavities. , 2007, , .		1
285	Quantum information processing with quantum dots in photonic crystals. , 2007, , .		1
286	Dipole induced transparency in waveguide coupled photonic crystal cavities. , 2008, , .		1
287	Gallium phosphide photonic crystal nanocavities in the visible. , 2008, , .		1
288	Optical manipulation of quantum dot excitons strongly coupled to photonic crystal cavities. Proceedings of SPIE, 2010, , .	0.8	1

#	ARTICLE	IF	CITATIONS
289	Double-layer silicon photonic crystal fiber tip sensor. , 2011, , .		1
290	Room Temperature Photoluminescence from Ge/SiGe Quantum Well Structure in Microdisk Resonator. , 2012, , .		1
291	Electrical design for lateral junction photonic crystal lasers. Proceedings of SPIE, 2013, , .	0.8	1
292	Below Bandgap Second Harmonic Generation in GaAs Photonic Crystal Cavities in (111) and (001) Crystal Orientations. , 2014, , .		1
293	Visible Photoluminescence in Cubic (3C) Silicon Carbide Coupled to High Quality Microdisk Resonators. , 2015, , .		1
294	Inverse design and implementation of a wavelength demultiplexing grating coupler. , 2015, , .		1
295	Reply to 'On nanostructured silicon success'. Nature Photonics, 2016, 10, 143-144.	15.6	1
296	Diamond Color Center Integration with a Silicon Carbide Photonics Platform. , 2018, , .		1
297	Level-set Fabrication Constraints for Gradient-based Optimization of Optical Devices. , 2018, , .		1
298	Quantum dot single photon sources with ultra-low multi-photon error rate. , 2018, , .		1
299	A nanophotonic interface for tin-vacancy spin qubits in diamond. , 2021, , .		1
300	Photonic Technologies for Quantum Information Processing. , 2005, , 215-231.		1
301	Physics and Applications of Quantum Dots in Photonic Crystals. Nanoscience and Technology, 2009, , 299-329.	1.5	1
302	Third-order photon correlations from a quantum dot coupled to a photonic-crystal nanocavity. , 2013, , .		1
303	Tuning the Photon Statistics of a Strongly Coupled Nanophotonic System. , 2017, , .		1
304	Nonreciprocal Devices in Silicon Photonics. Optics and Photonics News, 2020, 31, 38.	0.4	1
305	Local tuning of photonic crystal cavities using chalcogenide glasses. , 2008, , .		1
306	High Efficiency Solar Cells based on Spontaneous Emission Inhibition in Photonic Crystals. , 2009, , .		1

#	ARTICLE	IF	CITATIONS
307	Photoluminescence from silicon dioxide photonic crystal cavities with embedded silicon nanocrystals. , 2010, , .		1
308	Coherent Optical Spectroscopy of a Single Quantum Dot Via an Off-Resonant Cavity. , 2011, , .		1
309	Multiply Resonant Photonic Crystal Cavities for Nonlinear Frequency Conversion. , 2012, , .		1
310	Inverse designed Fano resonance in Silicon microresonators. , 2019, , .		1
311	Waveguide-integrated dielectric laser particle accelerators through the inverse design of photonics. , 2019, , .		1
312	Inverse Designed Diamond Nanophotonics. , 2019, , .		1
313	Inverse design of microresonator dispersion for nonlinear optics. , 2020, , .		1
314	Toward inverse-designed optical interconnect. , 2020, , .		1
315	Modeling and simulating real-time systems. , 0, , .		0
316	An approach to real-time system design. , 0, , .		0
317	Surface plasmon enhanced LED. , 2000, , .		0
318	Two-dimensional photonic crystal nanocavities for light localization. , 2000, , .		0
319	Photonic crystal nanocavities and waveguides. , 0, , .		0
320	Photonic crystal cavities and waveguides. , 0, , .		0
321	Single optical mode-spontaneous emission coupling of a quantum dot in a three-dimensional microcavity. , 0, , .		0
322	Optical characterization of high quality two dimensional photonic crystal cavities. , 0, , .		0
323	<title>High-Q optical nanocavities in planar photonic crystals</title>. , 2002, , .		0
324	<title>Optimization of Q factor in optical nanocavities based on free-standing membranes</title>. , 2002, 4655, 192.		0

#	ARTICLE	IF	CITATIONS
325	Regulated Single Photons and Entangled Photons From a Quantum Dot Microcavity. <i>Nanoscience and Technology</i> , 2002, , 277-305.	1.5	0
326	2-D photonic crystal microcavities. , 0, , .		0
327	High-efficiency triggered photons using single-cavity mode coupling of single quantum dot emission. , 2003, , .		0
328	Indistinguishable single photons from a single quantum dot microcavity. , 2003, 4969, 156.		0
329	Quantum cryptography with a single-photon source. , 2004, , .		0
330	Photonic-crystal based single photon source. , 2005, , .		0
331	Quantum information processing with quantum dot-photonic crystal devices. , 0, , .		0
332	Coupling of PbS quantum dots to photonic crystal cavities at room temperature. , 2006, , .		0
333	Coupled arrays of photonic crystal nanocavities and their applications. , 2006, 6128, 58.		0
334	Quantum optics and quantum information processing with photonic crystal devices. , 2006, , LWG2.		0
335	Photonic Crystal Microcavities for Classical and Quantum Information Processing. , 2006, , .		0
336	High modulation speed photonic crystal nanocavity array laser. , 2006, , .		0
337	An efficient source of single indistinguishable photons. , 2006, , .		0
338	Theoretical and Experimental Investigation of Efficient Photonic Crystal Cavity-Waveguide Couplers. , 2006, , .		0
339	Design and experimental characterization of photonic crystal cavities with embedded colloidal quantum dots. , 2006, , .		0
340	High Speed Dynamics of Photonic Crystal Nanocavity Laser. , 2006, , .		0
341	Nanophotonic devices for quantum information processing. , 2006, , .		0
342	Fourier-space design of efficient photonic crystal cavity-Waveguide couplers. , 2006, , .		0

#	ARTICLE	IF	CITATIONS
343	Silicon-based photonic crystal nanocavity light emitters. , 2006, , .		0
344	Coupled nanocavity arrays. , 2007, , .		0
345	Surface plasmon cavities for solid-state cavity quantum electrodynamics. , 2007, , .		0
346	Photonic Crystal Surface Mode Laser. , 2007, , .		0
347	Efficient Terahertz Room-Temperature Photonic Crystal Laser. , 2007, , .		0
348	Analysis of the Spontaneous Emission Rate Enhancement by Surface Plasmons in a Thin Metallic Layer Embedded in Semiconductor. , 2007, , .		0
349	Photoluminescence decay dynamics of silicon-rich silicon nitride film in photonic crystal nanocavity. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
350	Analytic Photonic Crystal Cavity Design. , 2007, , .		0
351	Photonic crystal surface mode laser. , 2007, , .		0
352	Local On-Chip Temperature Tuning of InGaAs Quantum Dots. , 2007, , .		0
353	Quantum networking with quantum dots coupled to micro-cavities. Proceedings of SPIE, 2007, , .	0.8	0
354	Ultra Fast Nonlinear Optical Tuning of Photonic Crystal Cavities. , 2007, , .		0
355	Analysis of the spontaneous emission rate enhancement by surface plasmons in a thin metallic layer embedded in semiconductor. , 2007, , .		0
356	Low-Threshold Ultrafast Surface-Passivated Photonic Crystal Nanocavity Lasers. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
357	Photonic crystal chips for optical interconnects and quantum information processing. Proceedings of SPIE, 2008, , .	0.8	0
358	Plasmonic gratings for interaction with quantum emitters. , 2008, , .		0
359	Single photon nonlinear optics with quantum dots in photonic crystal resonators. , 2008, , .		0
360	Realization of giant optical nonlinearities in a quantum dot coupled to a nanocavity. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
361	Photonic crystal chips for optical communications and quantum information processing. Proceedings of SPIE, 2008, , .	0.8	0
362	Enhanced erbium emission in photonic crystal nanocavities. , 2008, , .		0
363	Quantum dot-photonic crystal chips for quantum information processing. Proceedings of SPIE, 2008, , .	0.8	0
364	Plasmonic Metal-Insulator-Metal Structures for Interaction with Silicon Nanocrystals. , 2009, , .		0
365	Efficient luminescence in highly tensile-strained germanium. , 2009, , .		0
366	Differential gain at 1.54 μm in Er-doped silicon nitride coupled to photonic crystal cavity. , 2009, , .		0
367	Photon blockade in a photonic crystal cavity with a strongly coupled quantum dot. Proceedings of SPIE, 2009, , .	0.8	0
368	Single photon nonlinear optics in photonic crystals. Proceedings of SPIE, 2009, , .	0.8	0
369	Quantum dots in photonic crystals: from single photon sources to single photon nonlinear optics. , 2009, , .		0
370	Linewidth narrowing and luminescence enhancement in photonic crystal cavities and plasmonic gratings on an Er-doped silicon nitride platform. , 2010, , .		0
371	Optimal pulse to generate non-classical photon states via photon blockade. , 2010, , .		0
372	Integrated photonic crystal networks with coupled quantum dots. , 2010, , .		0
373	Observation of linewidth narrowing in erbium-doped silicon nitride coupled to photonic crystal nanobeam cavities. , 2010, , .		0
374	Fast and energy efficient optical switches and modulators based on photonic crystals. , 2010, , .		0
375	Optimization of Light Emission from Silicon Nanocrystals Grown by PECVD. Materials Research Society Symposia Proceedings, 2010, 1257, 1.	0.1	0
376	Spontaneous Emission Control in a Plasmonic Structure. , 2010, , 1-26.		0
377	Tunable light sources in the visible and near infrared based on fiber taper coupled photonic crystal nanocavities. , 2010, , .		0
378	Quantum and classical information processing with a single quantum dot in photonic crystal cavity. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
379	Quantum dot-nanocavity devices for information processing. , 2011, , .		0
380	Coherent Optical Spectroscopy of a Single Quantum Dot Via an Off-Resonant Cavity. , 2011, , .		0
381	Multiply Resonant Photonic Crystal Nanocavities with Broadband Tunability. , 2011, , .		0
382	A hybrid quantum photonic interface for solid state qubits. Proceedings of SPIE, 2011, , .	0.8	0
383	Nonlinear optics in photonic crystal nanocavities: from light sources to quantum photonic interfaces. , 2011, , .		0
384	Low power consumption electrically pumped photonic crystal membrane devices. Proceedings of SPIE, 2011, , .	0.8	0
385	Silicon Nanocavity Based Light Sources. Materials Research Society Symposia Proceedings, 2011, 1305, 1.	0.1	0
386	Photonic crystal cavities: From nonlinear optics at a few photons level, to fast, energy efficient information processing. , 2011, , .		0
387	(Solid state) cavity QED for quantum and classical information processing. , 2011, , .		0
388	Ultra-Low Threshold and High Speed Electrically Driven Photonic Crystal Nanocavity Lasers and LEDs. , 2012, , .		0
389	Ultrafast Direct Modulation of a Single-Mode Photonic Crystal Nanocavity Light-Emitting Diode. , 2012, , .		0
390	Optical Fiber Tips Functionalized with Semiconductor Photonic Crystal Cavities. , 2012, , .		0
391	Off-resonant Coupling Between a Single Quantum Dot and a Nanobeam Photonic Crystal Cavity. , 2012, , .		0
392	Ultrafast Nonlinear Dynamics in Strongly Coupled Quantum Dot-Cavity system. , 2012, , .		0
393	Light Emission in Ge Quantum Wells. , 2012, , .		0
394	Photonic crystal nanocavity lasers and modulators. , 2012, , .		0
395	Introduction to the Issue on Quantum and Nanoscale Photonics. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1627-1628.	1.9	0
396	Electrically driven photonic crystal nanocavity lasers, LEDs, and modulators. Proceedings of SPIE, 2012, , .	0.8	0

#	ARTICLE	IF	CITATIONS
397	Electrical Control of Photonic Crystal Cavity by Graphene. , 2013, , .		0
398	Electrically controlled photonic crystal nanocavity sources and modulators. , 2013, , .		0
399	Correlated photons in quantum dot-cavity quantum electrodynamics: beyond the single cavity. , 2013, , .		0
400	Photonic crystal coupled cavity arrays for quantum simulation. , 2013, , .		0
401	Photonic Crystal Cavities in Cubic Silicon Carbide. , 2014, , .		0
402	Towards few-photon optoelectronics with photonic crystal devices. , 2014, , .		0
403	Mimicking Heterostructure Behavior Within a Single Material at Room Temperature Using Strain. , 2014, , .		0
404	2D-material Based Nano-photonics. , 2014, , .		0
405	Ultrafast Light-Matter Interaction in a Metaphotonic Cavity Containing a Single Quantum Dot. , 2014, , .		0
406	Quantum nanophotonics. , 2015, , .		0
407	Hybrid Diamond-Silicon Carbide Structures Incorporating Silicon-Vacancies in Diamond as Quantum Emitters. , 2015, , .		0
408	Strained Ge nanowire with high-Q optical cavity for Ge laser applications. , 2015, , .		0
409	Inverse design and implementation of nanophotonic devices. , 2015, , .		0
410	3C-SiC Microdisks for Visible Photonics. Materials Science Forum, 0, 858, 711-714.	0.3	0
411	Remarkable interplay between strain and parasitic absorption unravelling the best route for Si-compatible Germanium laser at room temperature. , 2016, , .		0
412	Design grid optimization for OPC of silicon photonics (Conference Presentation). , 2017, , .		0
413	Re-excitation as a source of error in single-photon sources based on quantum two-level systems. , 2017, , .		0
414	From inverse design to implementation of robust photonics. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
415	Strong Cavity Enhancement of Spontaneous Emission from Silicon-Vacancy Centers in Diamond. , 2018, , .		0
416	Enhanced Solid-State High-Harmonic Generation from a Silicon Metasurface. , 2018, , .		0
417	Fabrication Constrained Inverse Design of a 3-channel Wavelength Demultiplexer. , 2018, , .		0
418	From inverse design to implementation of practical photonics. , 2019, , .		0
419	From Inverse Design to Implementation of Practical Photonics. , 2019, , .		0
420	Narrow-linewidth tin-vacancy centers in diamond waveguides. , 2021, , .		0
421	Quantum Control of Microwave-to-Optical Transducers for Inhomogeneous Broadening Compensation. , 2021, , .		0
422	Nonlinear Optical Processes in Photonic Crystal Microcavities. , 2007, , .		0
423	Room-Temperature Low-Threshold GaAs/InGaAs Photonic Crystal Laser. , 2007, , .		0
424	Dynamics of Quantum Dot Photonic Crystal Lasers. , 2007, , .		0
425	Terahertz Room-Temperature Photonic Crystal Laser. , 2007, , .		0
426	Cavity QED, Single-Photon Nonlinear Optics and Quantum Information Processing with Quantum Dots in Photonic Crystals. , 2008, , .		0
427	Silicon based colloidal quantum dot photonic crystal light emitters at telecom wavelengths. , 2008, , .		0
428	Engineering Anti-Bunching via Photon Blockade in Photonic Crystal Cavity-Quantum Dot Systems. , 2009, , .		0
429	Erbium doped silicon photonic crystals for light sources and amplifiers. , 2009, , .		0
430	Electrically Controlled Single Quantum Dot Switching in Photonic Crystal Resonators. , 2009, , .		0
431	Plasmonic Metal-Insulator-Metal Structures for Interaction with Erbium in Amorphous Silicon Nitride. , 2009, , .		0
432	Ultrafast All-Optical Switching with a Single Quantum Dot. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
433	Direct Band Gap Tensile-Strained Germanium. , 2009, , .		0
434	Two-Photon Excitation and Emission in Quantum Dots Coupled to Photonic Crystal Nanocavities. , 2009, , .		0
435	Probing High-Q Photonic Crystal Resonances with Fluorescent Molecules. , 2009, , .		0
436	Cavity-Enhanced Two-Photon Processes in Quantum Dots and Quantum Science Applications. , 2009, , .		0
437	Electrically Driven Optical Modulator with a Strongly Coupled Quantum Dot. , 2009, , .		0
438	Electro-optic modulation with a single quantum dot strongly coupled to a nanocavity. , 2010, , .		0
439	Second Harmonic Generation in Gallium Phosphide Photonic Crystal Nanocavities with Ultralow CW Pump Power. , 2010, , .		0
440	Quantum dot-nanocavity devices for information processing. , 2010, , .		0
441	Differential Reflection Spectroscopy of Photonic Crystal Cavities Containing Coupled InAs Quantum Dots. , 2010, , .		0
442	Electrically Pumped Photonic Crystal Nanocavities Using a Laterally Doped p-i-n Junction. , 2010, , .		0
443	Linewidth narrowing and Purcell enhancement in photonic crystal cavities on an Er-doped silicon nitride platform. , 2010, , .		0
444	Opto-mechanics and quantum dot-nanocavity QED. , 2011, , .		0
445	Ultra-low power fiber-coupled gallium arsenide photonic crystal cavity electro-optic modulator. , 2011, , .		0
446	Ultra-low Threshold Electrically Pumped Quantum Dot Photonic Crystal Nanocavity Laser. , 2011, , .		0
447	Multi-photon State Generation from Strongly Coupled Quantum Dot-Cavity System. , 2011, , .		0
448	Coherent Optical Spectroscopy of a Single Quantum Dot Via an Off-Resonant Cavity. , 2011, , .		0
449	Ultra-low Threshold Electrically Pumped Quantum Dot Photonic Crystal Nanocavity Laser. , 2011, , .		0
450	Quantum Dot Dressing Observed via Off-resonant Cavity. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
451	Fast quantum dot single photon source triggered at telecommunications wavelength. , 2011, , .		0
452	Off-resonant quantum dot-cavity interaction. , 2011, , .		0
453	Multiply Resonant High Quality Photonic Crystal Nanocavities. , 2011, , .		0
454	Ultra-low Threshold Electrically Pumped Quantum Dot Photonic Crystal Nanocavity Laser. , 2011, , .		0
455	Direct band Ge photoluminescence at 1.6 Åµm coupled to Ge-on-Si microdisk resonators. , 2011, , .		0
456	Photoluminescence from In _{0.5} Ga _{0.5} P/GaP quantum dots coupled to photonic crystal cavities. , 2011, , .		0
457	Photonic Crystal Cavity Lasers. , 2012, , 131-158.		0
458	Coupling a single quantum dot to a photonic molecule. , 2012, , .		0
459	Zeeman Splitting of Deterministically Charged Quantum Dots Coupled to Photonic Crystal Nanoresonators. , 2013, , .		0
460	Nonlinear Optics in (111)-GaAs Photonic Crystal Cavities. , 2013, , .		0
461	The subchronic effects of 3,4-methylenedioxymethamphetamine on oxidative stress in rat brain. Archives of Biological Sciences, 2014, 66, 1075-1081.	0.2	0
462	Optical Pumping of Individual Spins in Self-Assembled and Site-Controlled Quantum Dots. , 2015, , .		0
463	Nanophotonics in novel 111(2)-materials: (111)-GaAs and 3C-SiC. , 2015, , .		0
464	Nanocavity-enabled Ultrafast Generation of Highly-indistinguishable Photons. , 2016, , .		0
465	Emitter-Cavity Coupling in Hybrid Silicon Carbide-Nanodiamond Microdisk Resonators. , 2016, , .		0
466	Dramatic and previously overlooked interaction between strain and parasitic absorption in germanium with major implications for Si-compatible lasing. , 2016, , .		0
467	Low Strain Silicon-Vacancy Color Centers in Diamond Nanopillar Arrays. , 2016, , .		0
468	Complete Coherent Control of a Strongly Coupled Quantum Dot-Cavity Polariton System. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
469	Effects of Homodyne Interference on Jaynes-Cummings Emission for Single Photon Generation. , 2017, , .		0
470	Complete Coherent Control of Silicon-Vacancies in Diamond Nanopillars Containing Single Defect Centers. , 2017, , .		0
471	Spontaneous and Stimulated Emission from Quantum Optical Systems. , 2018, , .		0
472	Optimized photonics: from on-chip nonclassical light sources to circuits. , 2018, , .		0
473	Fully-automated grating coupler design through adjoint optimization. , 2018, , .		0
474	Scattering of Coherent Pulses from Quantum-Optical Systems. , 2018, , .		0
475	Optimized Quantum Photonics. , 2019, , .		0
476	Frequency Tunable Single-Photon Emission From a Single Atomic Defect in a Solid. , 2019, , .		0
477	Optimized diamond quantum photonics. , 2019, , .		0
478	Design of a tapered slot waveguide dielectric laser accelerator for sub-relativistic electrons. , 2019, , .		0
479	Foundry-fabricated Inverse Designed Photonics. , 2019, , .		0
480	Optical Parametric Oscillation Using 4H-SiC-on-Insulator Nanophotonics. , 2020, , .		0
481	Site-controlled generation of tin-vacancy centers in diamond via shallow ion implantation and diamond overgrowth. , 2020, , .		0
482	Optimized quantum photonics. , 2020, , .		0
483	Few-particle scattering from localized quantum systems in spatially structured bosonic baths. Quantum - the Open Journal for Quantum Science, 0, 6, 691.	0.0	0
484	Quantum Information Processing with Quantum Dots in Photonic Crystals. , 0, , 423-452.		0