

Jelena Vuckovic

List of Publications by Year in descending order

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484
papers

26,793
citations

5891

81
h-index

6643

156
g-index

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
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