

Jelena Vuckovic

List of Publications by Year in descending order

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484
papers

26,793
citations

5891

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6643

156
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495
all docs

495
docs citations

495
times ranked

15376
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum optics of soliton microcombs. Nature Photonics, 2022, 16, 52-58.	15.6	73
2	Low-overhead distribution strategy for simulation and optimization of large-area metasurfaces. Npj Computational Materials, 2022, 8, .	3.5	19
3	Photonic crystal resonators for inverse-designed multi-dimensional optical interconnects. Optics Letters, 2022, 47, 3063.	1.7	7
4	Photonic Inverse Design of On-Chip Microresonators. ACS Photonics, 2022, 9, 1875-1881.	3.2	31
5	Enhancing Superradiance in Spectrally Inhomogeneous Cavity QED Systems with Dynamic Modulation. ACS Photonics, 2022, 9, 2467-2472.	3.2	2
6	Creating boundaries along a synthetic frequency dimension. Nature Communications, 2022, 13, .	5.8	21
7	A fluorescence sandwich immunoassay for the real-time continuous detection of glucose and insulin in live animals. Nature Biomedical Engineering, 2021, 5, 53-63.	11.6	44
8	Narrow-linewidth tin-vacancy centers in diamond waveguides. , 2021, , .		0
9	Heuristic methods and performance bounds for photonic design. Optics Express, 2021, 29, 2827.	1.7	16
10	Quantum Control of Microwave-to-Optical Transducers for Inhomogeneous Broadening Compensation. , 2021, , .		0
11	Development of Quantum Interconnects (QICs) for Next-Generation Information Technologies. PRX Quantum, 2021, 2, .	3.5	172
12	Quantum Simulators: Architectures and Opportunities. PRX Quantum, 2021, 2, .	3.5	229
13	Generating arbitrary topological windings of a non-Hermitian band. Science, 2021, 371, 1240-1245.	6.0	159
14	Inverse spectral design of Kerr microcomb pulses. , 2021, , .		2
15	Site-Controlled Quantum Emitters in Monolayer MoSe ₂ . Nano Letters, 2021, 21, 2376-2381.	4.5	37
16	Electrical Tuning of Tin-Vacancy Centers in Diamond. Physical Review Applied, 2021, 15, .	1.5	19
17	Convex restrictions in physical design. Scientific Reports, 2021, 11, 12976.	1.6	3
18	Quantum Photonic Interface for Tin-Vacancy Centers in Diamond. Physical Review X, 2021, 11, .	2.8	34

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19	Optimal two-photon excitation of bound states in non-Markovian waveguide QED. Physical Review A, 2021, 104, .	1.0	7
20	A nanophotonic interface for tin-vacancy spin qubits in diamond. , 2021, , .		1
21	Control Design for Inhomogeneous-Broadening Compensation in Single-Photon Transducers. Physical Review Applied, 2021, 16, .	1.5	5
22	Inverse-Designed Photonic Crystal Circuits for Optical Beam Steering. ACS Photonics, 2021, 8, 3085-3093.	3.2	23
23	Dispersion Engineering With Photonic Inverse Design. IEEE Journal of Selected Topics in Quantum Electronics, 2020, 26, 1-6.	1.9	29
24	Generation of Non-€Classical Light Using Semiconductor Quantum Dots. Advanced Quantum Technologies, 2020, 3, 1900007.	1.8	38
25	On-chip integrated laser-driven particle accelerator. Science, 2020, 367, 79-83.	6.0	141
26	4H-silicon-carbide-on-insulator for integrated quantum and nonlinear photonics. Nature Photonics, 2020, 14, 330-334.	15.6	247
27	Spectrally reconfigurable quantum emitters enabled by optimized fast modulation. Npj Quantum Information, 2020, 6, .	2.8	38
28	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
29	Narrow-Linewidth Tin-Vacancy Centers in a Diamond Waveguide. ACS Photonics, 2020, 7, 2356-2361.	3.2	39
30	Analytic and geometric properties of scattering from periodically modulated quantum-optical systems. Physical Review A, 2020, 102, .	1.0	6
31	Beating absorption in solid-state high harmonics. Communications Physics, 2020, 3, .	2.0	14
32	Vibronic States and Their Effect on the Temperature and Strain Dependence of Silicon-Vacancy Qubits in 4H-siC	1.5	47
33	Nanophotonic inverse design with SPINS: Software architecture and practical considerations. Applied Physics Reviews, 2020, 7, .	5.5	92
34	Inverse-designed non-reciprocal pulse router for chip-based LiDAR. Nature Photonics, 2020, 14, 369-374.	15.6	145
35	Bounds for Scattering from Absorptionless Electromagnetic Structures. Physical Review Applied, 2020, 14, .	1.5	10
36	Inverse-Designed Photonics for Semiconductor Foundries. ACS Photonics, 2020, 7, 569-575.	3.2	68

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37	Generation of Tin-Vacancy Centers in Diamond via Shallow Ion Implantation and Subsequent Diamond Overgrowth. Nano Letters, 2020, 20, 1614-1619.	4.5	40
38	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
39	Integrated Quantum Photonics with Silicon Carbide: Challenges and Prospects. PRX Quantum, 2020, 1, .	3.5	89
40	Inverse-designed optical interconnect based on multimode photonics and mode-division multiplexing. , 2020, , .		2
41	Nonreciprocal Devices in Silicon Photonics. Optics and Photonics News, 2020, 31, 38.	0.4	1
42	Optical parametric oscillation in silicon carbide nanophotonics. Optica, 2020, 7, 1139.	4.8	86
43	Inverse design of microresonator dispersion for nonlinear optics. , 2020, , .		1
44	Optical Parametric Oscillation Using 4H-SiC-on-Insulator Nanophotonics. , 2020, , .		0
45	Site-controlled generation of tin-vacancy centers in diamond via shallow ion implantation and diamond overgrowth. , 2020, , .		0
46	Optimized quantum photonics. , 2020, , .		0
47	Toward inverse-designed optical interconnect. , 2020, , .		1
48	Nanodiamond Integration with Photonic Devices. Laser and Photonics Reviews, 2019, 13, 1800316.	4.4	50
49	Inverse-designed diamond photonics. Nature Communications, 2019, 10, 3309.	5.8	109
50	Spatiotemporal light control with frequency-gradient metasurfaces. Science, 2019, 365, 374-377.	6.0	117
51	Point-coupling Hamiltonian for frequency-independent linear optical devices. Physical Review A, 2019, 100, .	1.0	5
52	From inverse design to implementation of practical photonics. , 2019, , .		0
53	Photon Blockade in Weakly Driven Cavity Quantum Electrodynamics Systems with Many Emitters. Physical Review Letters, 2019, 122, 243602.	2.9	45
54	Analytical level set fabrication constraints for inverse design. Scientific Reports, 2019, 9, 8999.	1.6	76

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55	Characterization of optical and spin properties of single tin-vacancy centers in diamond nanopillars. Physical Review B, 2019, 99, .	1.1	43
56	Computational Bounds for Photonic Design. ACS Photonics, 2019, 6, 1232-1239.	3.2	38
57	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
58	From Inverse Design to Implementation of Practical Photonics. , 2019, , .		0
59	Data-driven acceleration of photonic simulations. Scientific Reports, 2019, 9, 19728.	1.6	18
60	Silicon-Compatible Fabrication of Inverse Woodpile Photonic Crystals with a Complete Band Gap. ACS Photonics, 2019, 6, 368-373.	3.2	5
61	Inverse Design and Demonstration of Broadband Grating Couplers. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-7.	1.9	67
62	4H-SiC-on-Insulator Platform for Quantum Photonics. , 2019, , .		3
63	Inverse designed Fano resonance in Silicon microresonators. , 2019, , .		1
64	Optimized Quantum Photonics. , 2019, , .		0
65	Frequency Tunable Single-Photon Emission From a Single Atomic Defect in a Solid. , 2019, , .		0
66	Inverse Designed Cavity-Waveguide Couplers. , 2019, , .		2
67	Optimized diamond quantum photonics. , 2019, , .		0
68	Waveguide-integrated dielectric laser particle accelerators through the inverse design of photonics. , 2019, , .		1
69	Design of a tapered slot waveguide dielectric laser accelerator for sub-relativistic electrons. , 2019, , .		0
70	Foundry-fabricated Inverse Designed Photonics. , 2019, , .		0
71	Inverse Designed Diamond Nanophotonics. , 2019, , .		1
72	Room temperature lasing unraveled by a strong resonance between gain and parasitic absorption in uniaxially strained germanium. Physical Review B, 2018, 97, .	1.1	20

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73	Strongly Cavity-Enhanced Spontaneous Emission from Silicon-Vacancy Centers in Diamond. Nano Letters, 2018, 18, 1360-1365.	4.5	112
74	Pulsed Rabi oscillations in quantum two-level systems: beyond the area theorem. Quantum Science and Technology, 2018, 3, 014006.	2.6	29
75	Quantum Properties of Dichroic Silicon Vacancies in Silicon Carbide. Physical Review Applied, 2018, 9, .	1.5	90
76	Inverse Design and Demonstration of a Compact on-Chip Narrowband Three-Channel Wavelength Demultiplexer. ACS Photonics, 2018, 5, 301-305.	3.2	183
77	Design of a tapered slot waveguide dielectric laser accelerator for sub-relativistic electrons. Optics Express, 2018, 26, 22801.	1.7	10
78	Inverse design in nanophotonics. Nature Photonics, 2018, 12, 659-670.	15.6	1,014
79	Few-photon scattering and emission from low-dimensional quantum systems. Physical Review B, 2018, 98, .	1.1	34
80	Diamond Color Center Integration with a Silicon Carbide Photonics Platform. , 2018, , .		1
81	Level-set Fabrication Constraints for Gradient-based Optimization of Optical Devices. , 2018, , .		1
82	From inverse design to implementation of robust photonics. , 2018, , .		0
83	Quantum dot single-photon sources with ultra-low multi-photon probability. Npj Quantum Information, 2018, 4, .	2.8	114
84	Strong Cavity Enhancement of Spontaneous Emission from Silicon-Vacancy Centers in Diamond. , 2018, , .		0
85	On-Chip Laser-Power Delivery System for Dielectric Laser Accelerators. Physical Review Applied, 2018, 9, .	1.5	37
86	Fully-automated optimization of grating couplers. Optics Express, 2018, 26, 4023.	1.7	115
87	Enhanced high-harmonic generation from an all-dielectric metasurface. Nature Physics, 2018, 14, 1006-1010.	6.5	215
88	Quantum dot single photon sources with ultra-low multi-photon error rate. , 2018, , .		1
89	Pulsed coherent drive in the Jaynes-Cummings model. Physical Review A, 2018, 98, .	1.0	10
90	Enhanced Solid-State High-Harmonic Generation from a Silicon Metasurface. , 2018, , .		0

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91	Fabrication Constrained Inverse Design of a 3-channel Wavelength Demultiplexer. , 2018, , .		0
92	Cavity-Enhanced Raman Emission from a Single Color Center in a Solid. Physical Review Letters, 2018, 121, 083601.	2.9	41
93	Spontaneous and Stimulated Emission from Quantum Optical Systems. , 2018, , .		0
94	Optimized photonics: from on-chip nonclassical light sources to circuits. , 2018, , .		0
95	Fully-automated grating coupler design through adjoint optimization. , 2018, , .		0
96	Scattering of Coherent Pulses from Quantum-Optical Systems. , 2018, , .		0
97	Observation of Mollow Triplets with Tunable Interactions in Double Lambda Systems of Individual Hole Spins. Physical Review Letters, 2017, 118, 013602.	2.9	15
98	Scalable Quantum Photonics with Single Color Centers in Silicon Carbide. Nano Letters, 2017, 17, 1782-1786.	4.5	129
99	Signatures of two-photon pulses from a quantum two-level system. Nature Physics, 2017, 13, 649-654.	6.5	53
100	Vertical-Substrate MPCVD Epitaxial Nanodiamond Growth. Nano Letters, 2017, 17, 1489-1495.	4.5	68
101	Design grid optimization for OPC of silicon photonics (Conference Presentation). , 2017, , .		0
102	Fabrication-constrained nanophotonic inverse design. Scientific Reports, 2017, 7, 1786.	1.6	200
103	Attosecond nanophotonics. Nature Photonics, 2017, 11, 210-212.	15.6	12
104	On-Chip Architecture for Self-Homodyned Nonclassical Light. Physical Review Applied, 2017, 7, .	1.5	22
105	Photon blockade in two-emitter-cavity systems. Physical Review A, 2017, 96, .	1.0	53
106	Tuning the photon statistics of a strongly coupled nanophotonic system. Physical Review A, 2017, 95, .	1.0	20
107	Hybrid metal-dielectric nanocavity for enhanced light-matter interactions. Optical Materials Express, 2017, 7, 231.	1.6	13
108	Complete coherent control of silicon vacancies in diamond nanopillars containing single defect centers. Optica, 2017, 4, 1317.	4.8	33

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109	Nonclassical Light Generation From III-V and Group-IV Solid-State Cavity Quantum Systems. <i>Advances in Atomic, Molecular and Optical Physics</i> , 2017, 66, 111-179.	2.3	10
110	Re-excitation as a source of error in single-photon sources based on quantum two-level systems. , 2017, , .		0
111	Tuning the Photon Statistics of a Strongly Coupled Nanophotonic System. , 2017, , .		1
112	Effects of Homodyne Interference on Jaynes-Cummings Emission for Single Photon Generation. , 2017, , .		0
113	Complete Coherent Control of Silicon-Vacancies in Diamond Nanopillars Containing Single Defect Centers. , 2017, , .		0
114	Ultrafast coherent manipulation of trions in site-controlled nanowire quantum dots. <i>Optica</i> , 2016, 3, 1430.	4.8	9
115	Dynamical modeling of pulsed two-photon interference. <i>New Journal of Physics</i> , 2016, 18, 113053.	1.2	45
116	Complete Coherent Control of a Quantum Dot Strongly Coupled to a Nanocavity. <i>Scientific Reports</i> , 2016, 6, 25172.	1.6	41
117	Emission redistribution from a quantum dot-bowtie nanoantenna. <i>Journal of Nanophotonics</i> , 2016, 10, 033509.	0.4	11
118	Remarkable interplay between strain and parasitic absorption unravelling the best route for Si-compatible Germanium laser at room temperature. , 2016, , .		0
119	Initialization of a spin qubit in a site-controlled nanowire quantum dot. <i>New Journal of Physics</i> , 2016, 18, 053024.	1.2	13
120	Self-homodyne measurement of a dynamic Mollow triplet in the solid state. <i>Nature Photonics</i> , 2016, 10, 163-166.	15.6	33
121	Hybrid Group IV Nanophotonic Structures Incorporating Diamond Silicon-Vacancy Color Centers. <i>Nano Letters</i> , 2016, 16, 212-217.	4.5	46
122	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
123	Reply to 'On nanostructured silicon success'. <i>Nature Photonics</i> , 2016, 10, 143-144.	15.6	1
124	Self-homodyne-enabled generation of indistinguishable photons. <i>Optica</i> , 2016, 3, 931.	4.8	19
125	Nanocavity-enabled Ultrafast Generation of Highly-indistinguishable Photons. , 2016, , .		0
126	Inverse Design of a Wavelength Demultiplexer. , 2016, , .		2

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127	Emitter-Cavity Coupling in Hybrid Silicon Carbide-Nanodiamond Microdisk Resonators. , 2016, , .		0
128	Dramatic and previously overlooked interaction between strain and parasitic absorption in germanium with major implications for Si-compatible lasing. , 2016, , .		0
129	Low Strain Silicon-Vacancy Color Centers in Diamond Nanopillar Arrays. , 2016, , .		0
130	Complete Coherent Control of a Strongly Coupled Quantum Dot-Cavity Polariton System. , 2016, , .		0
131	Ge microdisk with lithographically-tunable strain using CMOS-compatible process. Optics Express, 2015, 23, 33249.	1.7	12
132	Coherent Generation of Nonclassical Light on Chip via Detuned Photon Blockade. Physical Review Letters, 2015, 114, 233601.	2.9	109
133	A novel, highly-strained structure with an integrated optical cavity for a low threshold germanium laser. , 2015, , .		2
134	Quantum nanophotonics. , 2015, , .		0
135	Ultrafast Polariton-Phonon Dynamics of Strongly Coupled Quantum Dot-Nanocavity Systems. Physical Review X, 2015, 5, .	2.8	41
136	Focus on cavity and circuit quantum electrodynamics in solids. New Journal of Physics, 2015, 17, 010201.	1.2	7
137	Visible Photoluminescence from Cubic (3C) Silicon Carbide Microdisks Coupled to High Quality Whispering Gallery Modes. ACS Photonics, 2015, 2, 14-19.	3.2	42
138	Towards on-chip generation, routing and detection of non-classical light. , 2015, , .		3
139	On-Chip Generation, Routing, and Detection of Resonance Fluorescence. Nano Letters, 2015, 15, 5208-5213.	4.5	79
140	Inverse design and demonstration of a compact and broadband on-chip wavelength demultiplexer. Nature Photonics, 2015, 9, 374-377.	15.6	756
141	Monolayer semiconductor nanocavity lasers with ultralow thresholds. Nature, 2015, 520, 69-72.	13.7	713
142	Investigation of germanium quantum-well light sources. Optics Express, 2015, 23, 22424.	1.7	10
143	Visible Photoluminescence in Cubic (3C) Silicon Carbide Coupled to High Quality Microdisk Resonators. , 2015, , .		1
144	Inverse design and implementation of a wavelength demultiplexing grating coupler. , 2015, , .		1

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145	Hybrid Diamond-Silicon Carbide Structures Incorporating Silicon-Vacancies in Diamond as Quantum Emitters. , 2015, , .		0
146	Strained Ge nanowire with high-Q optical cavity for Ge laser applications. , 2015, , .		0
147	Inverse design and implementation of nanophotonic devices. , 2015, , .		0
148	Optical Pumping of Individual Spins in Self-Assembled and Site-Controlled Quantum Dots. , 2015, , .		0
149	Nanophotonics in novel Γ_2 -materials: (111)-GaAs and 3C-SiC. , 2015, , .		0
150	Photonic Crystal Cavities in Cubic Silicon Carbide. , 2014, , .		0
151	Below Bandgap Second Harmonic Generation in GaAs Photonic Crystal Cavities in (111) and (001) Crystal Orientations. , 2014, , .		1
152	Towards few-photon optoelectronics with photonic crystal devices. , 2014, , .		0
153	Mimicking Heterostructure Behavior Within a Single Material at Room Temperature Using Strain. , 2014, , .		0
154	Photo-oxidative tuning of individual and coupled GaAs photonic crystal cavities. Optics Express, 2014, 22, 15017.	1.7	11
155	Multimode nanobeam cavities for nonlinear optics: high quality resonances separated by an octave. Optics Express, 2014, 22, 26498.	1.7	36
156	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
157	Nonlinear frequency conversion using high-quality modes in GaAs nanobeam cavities. Optics Letters, 2014, 39, 5673.	1.7	15
158	Hole-spin pumping and repumping in a p -type Γ_2 -doped InAs quantum dot. Physical Review B, 2014, 90, .	1.1	7
159	Nonclassical higher-order photon correlations with a quantum dot strongly coupled to a photonic-crystal nanocavity. Physical Review A, 2014, 90, .	1.0	70
160	Graphene for Tunable Nanophotonic Resonators. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 68-71.	1.9	22
161	Control of two-dimensional excitonic light emission via photonic crystal. 2D Materials, 2014, 1, 011001.	2.0	144
162	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

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163	Second-Harmonic Generation in GaAs Photonic Crystal Cavities in (111)B and (001) Crystal Orientations. ACS Photonics, 2014, 1, 516-523.	3.2	36
164	2D-material Based Nano-photonics. , 2014, , .		0
165	Ultrafast Light-Matter Interaction in a Metaphotonic Cavity Containing a Single Quantum Dot. , 2014, , .		0
166	Inverse design and implementation of a wavelength demultiplexing grating coupler. Scientific Reports, 2014, 4, 7210.	1.6	118
167	The subchronic effects of 3,4-methylenedioxyamphetamine on oxidative stress in rat brain. Archives of Biological Sciences, 2014, 66, 1075-1081.	0.2	0
168	Electrical Control of Photonic Crystal Cavity by Graphene. , 2013, , .		0
169	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
170	Electrically controlled photonic crystal nanocavity sources and modulators. , 2013, , .		0
171	Direct bandgap germanium nanowires inferred from 5.0% uniaxial tensile strain. , 2013, , .		2
172	Single-Cell Photonic Nanocavity Probes. Nano Letters, 2013, 13, 4999-5005.	4.5	99
173	Electrical Control of Silicon Photonic Crystal Cavity by Graphene. Nano Letters, 2013, 13, 515-518.	4.5	193
174	Electrical design for lateral junction photonic crystal lasers. Proceedings of SPIE, 2013, , .	0.8	1
175	Ultra-low power all-optical switching with a single quantum dot in a photonic-crystal cavity. Proceedings of SPIE, 2013, , .	0.8	3
176	Strain-Induced Pseudoheterostructure Nanowires Confining Carriers at Room Temperature with Nanoscale-Tunable Band Profiles. Nano Letters, 2013, 13, 3118-3123.	4.5	107
177	Photonic crystal cavities in cubic (3C) polytype silicon carbide films. Optics Express, 2013, 21, 32623.	1.7	65
178	Nanophotonic computational design. Optics Express, 2013, 21, 13351.	1.7	242
179	Deterministically charged quantum dots in photonic crystal nanoresonators for efficient spin-photon interfaces. New Journal of Physics, 2013, 15, 113056.	1.2	24
180	Photon blockade with a four-level quantum emitter coupled to a photonic-crystal nanocavity. New Journal of Physics, 2013, 15, 025014.	1.2	47

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181	Focus on integrated quantum optics. <i>New Journal of Physics</i> , 2013, 15, 035016.	1.2	16
182	Second harmonic generation in photonic crystal cavities in (111)-oriented GaAs. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	36
183	Correlated photons in quantum dot-cavity quantum electrodynamics: beyond the single cavity. , 2013, , .		0
184	Photonic crystal coupled cavity arrays for quantum simulation. , 2013, , .		0
185	Objective-First Nanophotonic Design. <i>Topics in Applied Physics</i> , 2013, , 147-173.	0.4	2
186	Third-order photon correlations from a quantum dot coupled to a photonic-crystal nanocavity. , 2013, , .		1
187	Zeeman Splitting of Deterministically Charged Quantum Dots Coupled to Photonic Crystal Nanoresonators. , 2013, , .		0
188	Single-cell Photonic Nanocavity Probes. , 2013, , .		2
189	Nonlinear Optics in (111)-GaAs Photonic Crystal Cavities. , 2013, , .		0
190	Bichromatic driving of a solid-state cavity quantum electrodynamics system. <i>New Journal of Physics</i> , 2012, 14, 013028.	1.2	15
191	Objective-first design of high-efficiency, small-footprint couplers between arbitrary nanophotonic waveguide modes. <i>Optics Express</i> , 2012, 20, 7221.	1.7	113
192	Ultra-Low Threshold and High Speed Electrically Driven Photonic Crystal Nanocavity Lasers and LEDs. , 2012, , .		0
193	Quasiresonant excitation of InP/InGaP quantum dots using second harmonic generated in a photonic crystal cavity. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	3
194	A photonic crystal cavity-optical fiber tip nanoparticle sensor for biomedical applications. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	29
195	Design and analysis of photonic crystal coupled cavity arrays for quantum simulation. <i>Physical Review B</i> , 2012, 86, .	1.1	70
196	Cavity quantum electrodynamics with a single quantum dot coupled to a photonic molecule. <i>Physical Review B</i> , 2012, 86, .	1.1	80
197	A new approach to Ge lasers with low pump power. , 2012, , .		2
198	Phonon-mediated coupling between quantum dots through an off-resonant microcavity. <i>Physical Review B</i> , 2012, 85, .	1.1	30

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199	Probing the ladder of dressed states and nonclassical light generation in quantum-dot cavity QED. Physical Review A, 2012, 85, .	1.0	85
200	Nonlinear temporal dynamics of a strongly coupled quantum-dot cavity system. Physical Review A, 2012, 85, .	1.0	46
201	Loss-Enabled Sub-Poissonian Light Generation in a Bimodal Nanocavity. Physical Review Letters, 2012, 108, 183601.	2.9	158
202	Electrical properties of GaAs photonic crystal cavity lateral p-i-n diodes. Applied Physics Letters, 2012, 101, 011104.	1.5	4
203	Room Temperature Photoluminescence from Ge/SiGe Quantum Well Structure in Microdisk Resonator. , 2012, , .		1
204	Ultrafast Direct Modulation of a Single-Mode Photonic Crystal Nanocavity Light-Emitting Diode. , 2012, , .		0
205	Optical Fiber Tips Functionalized with Semiconductor Photonic Crystal Cavities. , 2012, , .		0
206	Off-resonant Coupling Between a Single Quantum Dot and a Nanobeam Photonic Crystal Cavity. , 2012, , .		0
207	Ultrafast Nonlinear Dynamics in Strongly Coupled Quantum Dot-Cavity system. , 2012, , .		0
208	Light Emission in Ge Quantum Wells. , 2012, , .		0
209	Ultrafast Photon-Photon Interaction in a Strongly Coupled Quantum Dot-Cavity System. Physical Review Letters, 2012, 108, 093604.	2.9	155
210	Photoluminescence from In $\substack{0.5} \text{Ga}$ quantum dots coupled to photonic crystal cavities. Physical Review B, 2012, 85, .	1.1	25
211	Photonic crystal nanocavity lasers and modulators. , 2012, , .		0
212	Electrically Driven Photonic Crystal Nanocavity Devices. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1700-1710.	1.9	23
213	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
214	Engineered quantum dot single-photon sources. Reports on Progress in Physics, 2012, 75, 126503.	8.1	323
215	Introduction to the Issue on Quantum and Nanoscale Photonics. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1627-1628.	1.9	0
216	Electrically driven photonic crystal nanocavity lasers, LEDs, and modulators. Proceedings of SPIE, 2012, , .	0.8	0

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217	Electrically driven photonic crystal nanocavity devices. , 2012, , .		3
218	Multiply Resonant Photonic Crystal Cavities for Nonlinear Frequency Conversion. , 2012, , .		1
219	Photonic Crystal Cavity Lasers. , 2012, , 131-158.		0
220	Coupling a single quantum dot to a photonic molecule. , 2012, , .		0
221	Quantum dot-nanocavity devices for information processing. , 2011, , .		0
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