Peter Lodahl

List of Publications by Year
in descending order

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176 papers	10,544 citations	44069 48 h-index	32842 100 g-index
178 all docs	178 docs citations	178 times ranked	7992 citing authors

#	Article	IF	Citations
1	Controlling the dynamics of spontaneous emission from quantum dots by photonic crystals. Nature, 2004, 430, 654-657.	27.8	1,089
2	Interfacing single photons and single quantum dots with photonic nanostructures. Reviews of Modern Physics, 2015, 87, 347-400.	45.6	1,014
3	Chiral quantum optics. Nature, 2017, 541, 473-480.	27.8	1,007
4	Deterministic photonâ€“emitter coupling in chiral photonic circuits. Nature Nanotechnology, 2015, 10, 775-778.	31.5	466
5	Near-Unity Coupling Efficiency of a Quantum Emitter to a Photonic Crystal Waveguide. Physical Review Letters, 2014, 113, 093603.	7.8	449
6	Cavity Quantum Electrodynamics with Anderson-Localized Modes. Science, 2010, 327, 1352-1355.	12.6	293
7	Experimental Realization of Highly Efficient Broadband Coupling of Single Quantum Dots to a Photonic Crystal Waveguide. Physical Review Letters, 2008, 101, 113903.	7.8	279
8	Quantum teleportation of light beams. Physical Review A, 2003, 67, .	2.5	212
9	Single-photon non-linear optics with a quantum dot in a waveguide. Nature Communications, 2015, 6, 8655.	12.8	196
10	Strongly modified plasmonâ€“matter interaction with mesoscopic quantum emitters. Nature Physics, 2011, 7, 215-218.	16.7	187
11	Frequency-Dependent Spontaneous Emission Rate from CdSe and CdTe Nanocrystals: Influence of Dark States. Physical Review Letters, 2005, 95, 236804.	7.8	174
12	Statistical analysis of time-resolved emission from ensembles of semiconductor quantum dots: Interpretation of exponential decay models. Physical Review B, 2007, 75, .	3.2	170
13	Directional Fluorescence Spectra of Laser Dye in Opal and Inverse Opal Photonic Crystals. Journal of Physical Chemistry B, 2005, 109, 9980-9988.	2.6	155
14	Random nanolasing in the Anderson localized regime. Nature Nanotechnology, 2014, 9, 285-289.	31.5	152
15	Scalable integrated single-photon source. Science Advances, 2020, 6, .	10.3	144
16	Electrical control of spontaneous emission and strong coupling for a single quantum dot. New Journal of Physics, 2009, 11, 023034.	2.9	130
17	Roadmap on all-optical processing. Journal of Optics (United Kingdom), 2019, 21, 063001.	2.2	128
18	Size dependence of the wavefunction of self-assembled InAs quantum dots from time-resolved optical measurements. Physical Review B, 2008, 77, .	3.2	119

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19	Observation of Non-Markovian Dynamics of a Single Quantum Dot in a Micropillar Cavity. Physical Review Letters, 2011, 106, 233601.	7.8	118
20	Finite-element modeling of spontaneous emission of a quantum emitter at nanoscale proximity to plasmonic waveguides. Physical Review B, 2010, 81, .	3.2	115
21	Ultrasensitive pulsed, balanced homodyne detector:â€ƒapplication to time-domain quantum measurements. Optics Letters, 2001, 26, 1714.	3.3	110
22	Quantum-dot based photonic quantum networks. Quantum Science and Technology, 2018, 3, 013001.	5.8	108
23	Demonstration of Quadrature-Squeezed Surface Plasmons in a Gold Waveguide. Physical Review Letters, 2009, 102, 246802.	7.8	103
24	Quantum Networks with Chiral-Lightâ€“Matter Interaction in Waveguides. Physical Review Letters, 2016, 117, 240501.	7.8	93
25	Non-Markovian Model of Photon-Assisted Dephasing by Electron-Phonon Interactions in a Coupled Quantum-Dotâ€“Cavity System. Physical Review Letters, 2010, 104, 157401.	7.8	90
26	Size-dependent oscillator strength and quantum efficiency of CdSe quantum dots controlled via the local density of states. Physical Review B, 2009, 79, .	3.2	89
27	Efficient fiber-coupled single-photon source based on quantum dots in a photonic-crystal waveguide. Optica, 2017, 4, 178.	9.3	87
28	Strongly nonexponential time-resolved fluorescence of quantum-dot ensembles in three-dimensional photonic crystals. Physical Review B, 2007, 75, .	3.2	86
29	Indistinguishable and efficient single photons from a quantum dot in a planar nanobeam waveguide. Physical Review B, 2017, 96, .	3.2	85
30	Spinâ€“photon interface and spin-controlled photon switching in a nanobeam waveguide. Nature Nanotechnology, 2018, 13, 398-403.	31.5	85
31	Quantum-dot-based deterministic photonâ€“emitter interfaces for scalable photonic quantum technology. Nature Nanotechnology, 2021, 16, 1308-1317.	31.5	85
32	Mutual coupling of two semiconductor quantum dots via an optical nanocavity. Physical Review B, 2010, 82, .	3.2	82
33	Optical cavity cooling of mechanical modes of a semiconductor nanomembrane. Nature Physics, 2012, 8, 168-172.	16.7	79
34	Efficient out-coupling of high-purity single photons from a coherent quantum dot in a photonic-crystal cavity. Physical Review B, 2014, 90, .	3.2	70
35	Probing long-lived dark excitons in self-assembled quantum dots. Physical Review B, 2010, 81, .	3.2	67
36	Strongly Correlated Photon Transport in Waveguide Quantum Electrodynamics with Weakly Coupled Emitters. Physical Review Letters, 2018, 121, 143601.	7.8	67

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37	Mapping the Local Density of Optical States of a Photonic Crystal with Single Quantum Dots. Physical Review Letters, 2011, 107, 167404.	7.8	63
38	One-Way Quantum Repeater Based on Near-Deterministic Photon-Emitter Interfaces. Physical Review X, 2020, 10, .	8.9	61
39	Fluorescence Lifetime of Emitters with Broad Homogeneous Linewidths Modified in Opal Photonic Crystals. Journal of Physical Chemistry C, 2008, 112, 7250-7254.	3.1	59
40	Engineering chiral lightâ€“matter interaction in photonic crystal waveguides with slow light. Optical Materials Express, 2017, 7, 43.	3.0	58
41	Spatial Quantum Correlations in Multiple Scattered Light. Physical Review Letters, 2005, 95, 173901.	7.8	56
42	Frequency dependence of the radiative decay rate of excitons in self-assembled quantum dots: Experiment and theory. Physical Review B, 2009, 80, .	3.2	56
43	Microscopic theory of phonon-induced effects on semiconductor quantum dot decay dynamics in cavity QED. Physical Review B, 2012, 86, .	3.2	51
44	Quantum Networks with Deterministic Spinâ€“Photon Interfaces. Advanced Quantum Technologies, 2019, 2, 1800091.	3.9	51
45	Extraction of the Î²-factor for single quantum dots coupled to a photonic crystal waveguide. Applied Physics Letters, 2010, 96, .	3.3	50
46	Spontaneous emission from large quantum dots in nanostructures: Exciton-photon interaction beyond the dipole approximation. Physical Review B, 2012, 86, .	3.2	50
47	Quantum Optics with Near-Lifetime-Limited Quantum-Dot Transitions in a Nanophotonic Waveguide. Nano Letters, 2018, 18, 1801-1806.	9.1	49
48	Photon Sorting, Efficient Bell Measurements, and a Deterministic Controlled-<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Z</mml:mi></mml:math>Gate Using a Passive Two-Level Nonlinearity. Physical Review Letters, 2015, 114, 173603.	7.8	48
49	Single-Photon Superradiance from a Quantum Dot. Physical Review Letters, 2016, 116, 163604.	7.8	48
50	On-chip deterministic operation of quantum dots in dual-mode waveguides for a plug-and-play single-photon source. Nature Communications, 2020, 11, 3782.	12.8	48
51	Density of states controls Anderson localization in disordered photonic crystal waveguides. Physical Review B, 2010, 82, .	3.2	47
52	Microscopic theory of indistinguishable single-photon emission from a quantum dot coupled to a cavity: The role of non-Markovian phonon-induced decoherence. Physical Review B, 2013, 87, .	3.2	46
53	Phonon Decoherence of Quantum Dots in Photonic Structures: Broadening of the Zero-Phonon Line and the Role of Dimensionality. Physical Review Letters, 2018, 120, 257401.	7.8	46
54	Observation of Spatial Quantum Correlations Induced by Multiple Scattering of Nonclassical Light. Physical Review Letters, 2009, 102, 193901.	7.8	45

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55	Quantitative analysis of directional spontaneous emission spectra from light sources in photonic crystals. Physical Review A, 2005, 71, .	2.5	43
56	Nanomechanical single-photon routing. Optica, 2019, 6, 524.	9.3	41
57	Probing the statistical properties of Anderson localization with quantum emitters. New Journal of Physics, 2011, 13, 063044.	2.9	40
58	Coherent nonlinear optics of quantum emitters in nanophotonic waveguides. Nanophotonics, 2019, 8, 1641-1657.	6.0	40
59	High-efficiency shallow-etched grating on GaAs membranes for quantum photonic applications. Applied Physics Letters, 2018, 113, .	3.3	39
60	Transport of Quantum Noise through Random Media. Physical Review Letters, 2005, 94, 153905.	7.8	36
61	Statistical Theory of a Quantum Emitter Strongly Coupled to Anderson-Localized Modes. Physical Review Letters, 2012, 108, 113901.	7.8	36
62	Pattern formation in singly resonant second-harmonic generation with competing parametric oscillation. Physical Review A, 1999, 60, 3251-3261.	2.5	35
63	Quantum Interference and Entanglement Induced by Multiple Scattering of Light. Physical Review Letters, 2010, 105, 090501.	7.8	34
64	Quantum efficiency and oscillator strength of site-controlled InAs quantum dots. Applied Physics Letters, 2010, 96, .	3.3	34
65	Nonuniversal Intensity Correlations in a Two-Dimensional Anderson-Localizing Random Medium. Physical Review Letters, 2012, 109, 253902.	7.8	34
66	Determination of the diffusion constant using phase-sensitive measurements. Physical Review E, 2005, 71, 056604.	2.1	29
67	High-Q optomechanical GaAs nanomembranes. Applied Physics Letters, 2011, 99, 243102.	3.3	29
68	Decay dynamics of radiatively coupled quantum dots in photonic crystal slabs. Physical Review B, 2011, 83, .	3.2	29
69	Decay dynamics and exciton localization in large GaAs quantum dots grown by droplet epitaxy. Physical Review B, 2013, 88, .	3.2	29
70	Narrow optical linewidths and spin pumping on charge-tunable close-to-surface self-assembled quantum dots in an ultrathin diode. Physical Review B, 2017, 96, .	3.2	29
71	Measurement of a band-edge tail in the density of states of a photonic-crystal waveguide. Physical Review B, 2012, 86, .	3.2	28
72	Quantifying the intrinsic amount of fabrication disorder in photonic-crystal waveguides from optical far-field intensity measurements. Applied Physics Letters, 2013, 102, 031101.	3.3	28

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73	Near Transform-Limited Quantum Dot Linewidths in a Broadband Photonic Crystal Waveguide. ACS Photonics, 2020, 7, 2343-2349.	6.6	28
74	Deterministic positioning of nanophotonic waveguides around single self-assembled quantum dots. APL Photonics, 2020, 5, 086101.	5.7	28
75	Large quantum dots with small oscillator strength. Physical Review B, 2010, 82, .	3.2	27
76	Numerical modeling of the coupling efficiency of single quantum emitters in photonic-crystal waveguides. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 514.	2.1	27
77	Experimental Reconstruction of the Few-Photon Nonlinear Scattering Matrix from a Single Quantum Dot in a Nanophotonic Waveguide. Physical Review Letters, 2021, 126, 023603.	7.8	27
78	Coherent Spin-Photon Interface with Waveguide Induced Cycling Transitions. Physical Review Letters, 2021, 126, 013602.	7.8	27
79	Spontaneous decay of a single quantum dot coupled to a metallic slot waveguide in the presence of leaky plasmonic modes. Optics Express, 2010, 18, 12489.	3.4	26
80	Theory and experiments of disorder-induced resonance shifts and mode-edge broadening in deliberately disordered photonic crystal waveguides. Physical Review A, 2015, 92, .	2.5	25
81	Physics of Quantum Light Emitters in Disordered Photonic Nanostructures. Annalen Der Physik, 2017, 529, 1600351.	2.4	24
82	Cooperative fluorescence from a strongly driven dilute cloud of atoms. Physical Review A, 2013, 87, .	2.5	23
83	Measuring the effective phonon density of states of a quantum dot in cavity quantum electrodynamics. Physical Review B, 2013, 88, .	3.2	23
84	Radiative Auger process in the single-photon limit. Nature Nanotechnology, 2020, 15, 558-562.	31.5	23
85	Observation of self-pulsing in singly resonant optical second-harmonic generation with competing nonlinearities. Physical Review A, 2002, 65, .	2.5	22
86	Quantitative analysis of quantum dot dynamics and emission spectra in cavity quantum electrodynamics. New Journal of Physics, 2013, 15, 025013.	2.9	22
87	Probing Electric and Magnetic Vacuum Fluctuations with Quantum Dots. Physical Review Letters, 2014, 113, 043601.	7.8	22
88	Modification of pattern formation in doubly resonant second-harmonic generation by competing parametric oscillation. Optics Letters, 2000, 25, 654.	3.3	21
89	Einstein-Podolsky-Rosen correlations in second-harmonic generation. Physical Review A, 2003, 68, .	2.5	21
90	Electro-optic routing of photons from a single quantum dot in photonic integrated circuits. Optics Express, 2017, 25, 33514.	3.4	21

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91	High efficiency second harmonic generation with a low power diode laser. Applied Physics B: Lasers and Optics, 1997, 64, 383-386.	2.2	20
92	Spiral Intensity Patterns in the Internally Pumped Optical Parametric Oscillator. Physical Review Letters, 2000, 85, 4506-4509.	7.8	20
93	Solid-state quantum optics with quantum dots in photonic nanostructures. Nanophotonics, 2013, 2, 39-55.	6.0	20
94	Statistical measurements of quantum emitters coupled to Anderson-localized modes in disordered photonic-crystal waveguides. Optics Express, 2014, 22, 30992.	3.4	20
95	Coherent Optical Control of a Quantum-Dot Spin-Qubit in a Waveguide-Based Spin-Photon Interface. Physical Review Applied, 2019, 11, .	3.8	20
96	Decay dynamics of quantum dots influenced by the local density of optical states of two-dimensional photonic crystal membranes. Applied Physics Letters, 2008, 93, 094102.	3.3	19
97	Shell theorem for spontaneous emission. Physical Review B, 2013, 88, .	3.2	19
98	Unraveling the Mesoscopic Character of Quantum Dots in Nanophotonics. Physical Review Letters, 2015, 114, 247401.	7.8	19
99	Two mechanisms of disorder-induced localization in photonic-crystal waveguides. Physical Review B, 2017, 96, .	3.2	19
100	Efficient demultiplexed single-photon source with a quantum dot coupled to a nanophotonic waveguide. Applied Physics Letters, 2019, 115, .	3.3	19
101	Transverse modulational instability of counterpropagating quasi-phase-matched beams in a quadratically nonlinear medium. Optics Letters, 1998, 23, 1650.	3.3	16
102	Spatiotemporal structures in the internally pumped optical parametric oscillator. Physical Review A, 2001, 63, .	2.5	16
103	Dynamically reconfigurable directionality of plasmon-based single photon sources. Physical Review B, 2010, 82, .	3.2	16
104	High-fidelity multiphoton-entangled cluster state with solid-state quantum emitters in photonic nanostructures. Physical Review A, 2022, 105, .	2.5	16
105	A Pure and Indistinguishable Singleâ€Photon Source at Telecommunication Wavelength. Advanced Quantum Technologies, 2022, 5, .	3.9	16
106	Deterministic Single-Phonon Source Triggered by a Single Photon. Physical Review Letters, 2016, 116, 234301.	7.8	15
107	Chiral quantum optics in broken-symmetry and topological photonic crystal waveguides. Physical Review Research, 2022, 4, .	3.6	15
108	Quantum correlations induced by multiple scattering of quadrature squeezed light. Optics Express, 2006, 14, 6919.	3.4	14

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109	Deterministic Photon Sorting in Waveguide QED Systems. Physical Review Letters, 2022, 128, .	7.8	14
110	Entangling a Hole Spin with a Time-Bin Photon: A Waveguide Approach for Quantum Dot Sources of Multiphoton Entanglement. Physical Review Letters, 2022, 128, .	7.8	14
111	A deterministic source of single photons. Physics Today, 2022, 75, 44-50.	0.3	13
112	Nonlinear analysis of pattern formation in singly resonant second-harmonic generation. Optics Communications, 2000, 184, 493-505.	2.1	12
113	Fractional decay of quantum dots in real photonic crystals. Optics Letters, 2008, 33, 1557.	3.3	12
114	Light propagation in finite-sized photonic crystals: multiple scattering using an electric field integral equation. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 228.	2.1	12
115	Observation of the exciton Mott transition in the photoluminescence of coupled quantum wells. Physical Review B, 2016, 94, .	3.2	12
116	Continuous-wave spatial quantum correlations of light induced by multiple scattering. Physical Review A, 2012, 86, .	2.5	11
117	Quantum noise frequency correlations of multiply scattered light. Optics Letters, 2006, 31, 110.	3.3	10
118	Spatial quantum noise in singly resonant second-harmonic generation. Optics Letters, 2002, 27, 110.	3.3	9
119	Suppressing phonon decoherence of high performance single-photon sources in nanophotonic waveguides. Quantum Science and Technology, 2019, 4, 015003.	5.8	9
120	Onâ€Chip Nanomechanical Filtering of Quantumâ€Dot Singleâ€Photon Sources. Laser and Photonics Reviews, 2020, 14, 1900404.	8.7	9
121	Wafer-scale epitaxial modulation of quantum dot density. Nature Communications, 2022, 13, 1633.	12.8	9
122	Highly anisotropic decay rates of single quantum dots in photonic crystal membranes. Optics Letters, 2010, 35, 2768.	3.3	8
123	Fidelity of time-bin-entangled multiphoton states from a quantum emitter. Physical Review A, 2021, 104, .	2.5	8
124	A comparison between experiment and theory on few-quantum-dot nanolasing in a photonic-crystal cavity. Optics Express, 2013, 21, 28507.	3.4	7
125	Integrated Whispering-Gallery-Mode Resonator for Solid-State Coherent Quantum Photonics. Nano Letters, 2021, 21, 8707-8714.	9.1	7
126	On-Demand Source of Dual-Rail Photon Pairs Based on Chiral Interaction in a Nanophotonic Waveguide. PRX Quantum, 2022, 3, .	9.2	7

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127	Observation of spatial modulation instability in intracavity second-harmonic generation. Optics Letters, 2003, 28, 31.	3.3	6
128	Angle-resolved photon-coincidence measurements in a multiple-scattering medium. Physical Review A, 2011, 83, .	2.5	6
129	Optical refrigeration with coupled quantum wells. Optics Express, 2015, 23, 25340.	3.4	6
130	Scaling up solid-state quantum photonics. Science, 2018, 362, 646-646.	12.6	6
131	Carrier-mediated optomechanical forces in semiconductor nanomembranes with coupled quantum wells. Physical Review B, 2018, 98, .	3.2	6
132	Suspended Spotâ€Size Converters for Scalable Singleâ€Photon Devices. Advanced Quantum Technologies, 2020, 3, 1900076.	3.9	6
133	In-plane resonant excitation of quantum dots in a dual-mode photonic-crystal waveguide with high Î²-factor. Quantum Science and Technology, 2022, 7, 025023.	5.8	6
134	Spatial quantum noise in singly resonant second-harmonic generation:â€ƒerrata. Optics Letters, 2002, 27, 551.	3.3	5
135	On the interpretation of wave function overlaps in quantum dots. Physica Status Solidi (B): Basic Research, 2011, 248, 855-858.	1.5	4
136	Lifetimes and Quantum Efficiencies of Quantum Dots Deterministically Positioned in Photonicâ€Crystal Waveguides. Advanced Quantum Technologies, 2020, 3, 2000026.	3.9	4
137	Quantum state transfer between a frequency-encoded photonic qubit and a quantum-dot spin in a nanophotonic waveguide. Physical Review A, 2022, 105, .	2.5	4
138	All-solid-state quantum optics employing quantum dots in photonic crystals. , 2012, , 395-422e.		3
139	Extraction of optical Bloch modes in a photonic-crystal waveguide. Journal of Applied Physics, 2012, 111, 033108.	2.5	3
140	Role of multilevel states on quantum-dot emission in photonic-crystal cavities. Physical Review B, 2016, 94, .	3.2	3
141	Electroabsorption in gated GaAs nanophotonic waveguides. Applied Physics Letters, 2021, 118, .	3.3	3
142	Quantumâ€dot excitons in nanostructured environments. Physica Status Solidi (B): Basic Research, 2011, 248, 375-383.	1.5	2
143	The Mesoscopic Nature of Quantum Dots in Photon Emission. Nano-optics and Nanophotonics, 2017, , 165-198.	0.2	2
144	On the Purcell effect beyond the dipole approximation. , 2012, , .		1

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145	Highly anisotropic decay rate of single quantum dots in photonic crystal membranes. , 2010, , .		1
146	Spatial patterns in second harmonic generation. , 0, , .		0
147	Spatial quantum correlations induced by multiple scattering of light. , 2006, , .		0
148	Quantum efficiency of self-assembled quantum dots determined by a modified optical local density of states. , 2007, , .		0
149	Spatial Quantum Correlations Induced by Random Multiple Scattering of Quadrature Squeezed Light. , 2007, , .		0
150	Dark-bright exciton spin-flip rates of quantum dots determined by a modified local density of optical states. , 2009, , .		0
151	Size dependent oscillator strength of CdSe quantum dots determined by nanophotonic control. , 2009, , .		0
152	Effect of temperature and phonons on the spectral properties of a multi-level semiconductor quantum dot single-photon source. , 2009, , .		0
153	Demonstration of quadrature squeezed surface-plasmons in a gold waveguide. , 2009, , .		0
154	Controlling Anderson Localization in Disordered Photonic Crystal Waveguides. , 2010, , .		0
155	Finite element modeling of plasmon based single-photon sources. , 2011, , .		0
156	Quantum Electrodynamics with Semiconductor Quantum Dots Coupled to Anderson-localized Random Cavities. , 2011, , .		0
157	Quantum Interference of Multiple Beams Induced by Multiple Scattering. , 2011, , .		0
158	Inside Back Cover: Quantumâ€dot excitons in nanostructured environments (Phys. Status Solidi B) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.5	0
159	Scattering Induced Quantum Interference of Multiple Quantum Optical States. , 2011, , .		0
160	Multiple scattering of quantum optical states. , 2011, , .		0
161	Observation of non-Markovian dynamics of a single quantum dot in a micropillar cavity. , 2011, , .		0
162	Few-quantum-dot lasing in photonic crystal nanocavities. , 2011, , .		0

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163	A nanophotonic probe for quantum electrodynamics in random cavities. , 2011, , .		0
164	Role of the lightmatter coupling strength on non-Markovian phonon effects in semiconductor cavity QED. , 2011, , .		0
165	Accessing the Magnetic Dipole and Electric Quadrupole of Quantum Dots with Light. , 2014, , .		0
166	Statistics of decay dynamics of quantum emitters in disordered photonic-crystal waveguides. , 2014, , .		0
167	Disorder-induced resonance shifts and mode edge broadening in photonic crystal waveguides. , 2014, , .		0
168	Reconfigurable quantum photonic circuits based on nano-electro-mechanical systems. , 2015, , .		0
169	Photonic quantum-information processing with quantum dots in photonic crystals. , 2015, , .		0
170	Photonic Quantum-Information Processing with Quantum Dots in Photonic Crystals. , 2015, , .		0
171	Single-Photon Radiative Auger Emission from a Quantum Dot. , 2021, , .		0
172	Experimental demonstration of spatial quantum correlations in multiple scattering media. , 2009, , .		0
173	Extracting the radiative, nonradiative and spin-flip rate of single self-assembled quantum dots in photonic crystals. , 2011, , .		0
174	Quantum Electrodynamics in Disordered Photonic Crystals. , 2011, , .		0
175	Cavity QED with Anderson-Localized Cavities in Disordered Photonic Crystals. , 2012, , .		0
176	Anderson localization in disordered photonic crystals for cavity quantum electrodynamics and random lasing. , 2013, , .		0