Richard P Mirin

List of Publications by Year
in descending order

221	9,423	46636 47	43165 92
papers	citations	h-index	g-index

223	223	223	8430
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Detecting single infrared photons with 93% system efficiency. Nature Photonics, 2013, 7, 210-214.	23.1	988
2	Strong Loophole-Free Test of Local Realism. Physical Review Letters, 2015, 115, 250402.	8.0	957
3	Demonstration of sub-3 ps temporal resolution with a superconducting nanowire single-photon detector. Nature Photonics, 2020, 14, 250-255.	23.1	321
4	1.3 Î¼m photoluminescence from InGaAs quantum dots on GaAs. Applied Physics Letters, 1995, 67, 3795-3797.	3.2	244
5	Generation of optical coherent-state superpositions by number-resolved photon subtraction from the squeezed vacuum. Physical Review A, 2010, 82, .	2.5	217
6	Superconducting nanowire single-photon detectors with 98% system detection efficiency at 1550â€‰â€‰nm. Optica, 2020, 7, 1649.	9.3	207
7	Heterogeneous integration for on-chip quantum photonic circuits with single quantum dot devices. Nature Communications, 2017, 8, 889.	13.2	196
8	Photon-efficient quantum key distribution using timeâ€“energy entanglement with high-dimensional encoding. New Journal of Physics, 2015, 17, 022002.	2.9	163
9	Superconducting Optoelectronic Circuits for Neuromorphic Computing. Physical Review Applied, 2017, 7, .	3.8	154
10	Single photon source characterization with a superconducting single photon detector. Optics Express, 2005, 13, 10846.	3.4	146
11	Direct generation of three-photon polarization entanglement. Nature Photonics, 2014, 8, 801-807.	23.1	131
12	Kilopixel array of superconducting nanowire single-photon detectors. Optics Express, 2019, 27, 35279.	3.4	125
13	Two-Quantum Many-Body Coherences in Two-Dimensional Fourier-Transform Spectra of Exciton Resonances in Semiconductor Quantum Wells. Physical Review Letters, 2010, 104, 117401.	8.0	117
14	A three-dimensional, polarization-insensitive superconducting nanowire avalanche photodetector. Applied Physics Letters, 2012, 101, .	3.2	117
15	High-efficiency superconducting nanowire single-photon detectors fabricated from MoSi thin-films. Optics Express, 2015, 23, 33792.	3.4	114
16	A near-infrared 64-pixel superconducting nanowire single photon detector array with integrated multiplexed readout. Applied Physics Letters, 2015, 106, .	3.2	113
17	Polarization-dependent optical 2D Fourier transform spectroscopy of semiconductors. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14227-14232.	7.6	110
18	Photon-number-discriminating detection using a quantum-dot, optically gated, field-effect transistor. Nature Photonics, 2007, 1, 585-588.	23.1	107

#	Article	IF	Citations
19	High quantum-efficiency photon-number-resolving detector for photonic on-chip information processing. Optics Express, 2013, 21, 22657.	3.4	105
20	Quantum teleportation over 100â€‰â€‰km of fiber using highly efficient superconducting nanowire single-photon detectors. Optica, 2015, 2, 832.	9.3	105
21	Efficient fiber-coupled single-photon source based on quantum dots in a photonic-crystal waveguide. Optica, 2017, 4, 178.	9.3	93
22	Single-photon detection in the mid-infrared up to 10 <i>Î¼</i>m wavelength using tungsten silicide superconducting nanowire detectors. APL Photonics, 2021, 6, .	5.5	82
23	Doubleâ€fused 1.52â€Î¼m verticalâ€cavity lasers. Applied Physics Letters, 1995, 66, 1030-1032.	3.2	81
24	On-chip, photon-number-resolving, telecommunication-band detectors for scalable photonic information processing. Physical Review A, 2011, 84, .	2.5	80
25	Structural and optical characterization of InAs/InGaAs selfâ€assembled quantum dots grown on (311)BGaAs. Journal of Applied Physics, 1996, 80, 3466-3470.	2.3	77
26	Fast lifetime measurements of infrared emitters using a low-jitter superconducting single-photon detector. Applied Physics Letters, 2006, 89, 031109.	3.2	76
27	UV superconducting nanowire single-photon detectors with high efficiency, low noise, and 4 K operating temperature. Optics Express, 2017, 25, 26792.	3.4	73
28	All-silicon light-emitting diodes waveguide-integrated with superconducting single-photon detectors. Applied Physics Letters, 2017, 111, .	3.2	71
29	Generation of degenerate, factorizable, pulsed squeezed light at telecom wavelengths. Optics Express, 2011, 19, 24434.	3.4	68
30	Polarization dependence of semiconductor exciton and biexciton contributions to phase-resolved optical two-dimensional Fourier-transform spectra. Physical Review B, 2009, 79, .	3.3	66
31	Multiphoton quantum-state engineering using conditional measurements. Npj Quantum Information, 2019, 5, .	6.8	66
32	High-order temporal coherences ofâ€¨chaotic and laser light. Optics Express, 2010, 18, 1430.	3.4	62
33	Ultra-low-noise monolithic mode-locked solid-state laser. Optica, 2016, 3, 995.	9.3	62
34	Quantum frequency conversion of a quantum dot single-photon source on a nanophotonic chip. Optica, 2019, 6, 563.	9.3	61
35	COLORED POTATOES (SOLANUM TUBEROSUM L.) DRIED FOR ANTIOXIDANT-RICH VALUE-ADDED FOODS. Journal of Food Processing and Preservation, 2011, 35, 571-580.	1.9	60
36	Superconducting nanowire single photon detectors fabricated from an amorphous Mo0.75Ge0.25 thin film. Applied Physics Letters, 2014, 105, .	3.2	58

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37	Spectral correlation measurements at the Hong-Ou-Mandel interference dip. Physical Review A, 2015, 91, .	2.5	58
38	Quantum-correlated photon pairs generated in a commercial 45â€‰â€‰nm complementary metal-oxide semiconductor microelectronic chip. Optica, 2015, 2, 1065.	9.3	57
39	Entanglement-based quantum communication secured by nonlocal dispersion cancellation. Physical Review A, 2014, 90, .	2.5	56
40	Superconducting optoelectronic loop neurons. Journal of Applied Physics, 2019, 126, .	2.3	56
41	State Readout of a Trapped Ion Qubit Using a Trap-Integrated Superconducting Photon Detector. Physical Review Letters, 2021, 126, 010501.	8.0	56
42	Extraction of Many-Body Configurations from Nonlinear Absorption in Semiconductor Quantum Wells. Physical Review Letters, 2010, 104, 247401.	8.0	54
43	High-efficiency WSi superconducting nanowire single-photon detectors operating at 2.5â€‰K. Applied Physics Letters, 2014, 105, .	3.2	54
44	Mid-infrared Laser-Induced Fluorescence with Nanosecond Time Resolution Using a Superconducting Nanowire Single-Photon Detector: New Technology for Molecular Science. Accounts of Chemical Research, 2017, 50, 1400-1409.	16.6	53
45	Single-photon detection using a quantum dot optically gated field-effect transistor with high internal quantum efficiency. Applied Physics Letters, 2006, 89, 253505.	3.2	52
46	Superconducting microwire detectors based on WSi with single-photon sensitivity in the near-infrared. Applied Physics Letters, 2020, 116, .	3.2	52
47	Device-independent randomness expansion with entangled photons. Nature Physics, 2021, 17, 452-456.	11.8	49
48	Extending single-photon optimized superconducting transition edge sensors beyond the single-photon counting regime. Optics Express, 2012, 20, 23798.	3.4	47
49	Design, fabrication, and metrology of 10 Ã— 100 multi-planar integrated photonic routing manifolds for neural networks. APL Photonics, 2018, 3, .	5.5	47
50	Efficient second harmonic generation in nanophotonic GaAs-on-insulator waveguides. Optics Express, 2020, 28, 9521.	3.4	47
51	Hotspot relaxation dynamics in a current-carrying superconductor. Physical Review B, 2016, 93, .	3.3	46
52	Fano fluctuations in superconducting-nanowire single-photon detectors. Physical Review B, 2017, 96, .	3.3	46
53	Deuterated silicon nitride photonic devices for broadband optical frequency comb generation. Optics Letters, 2018, 43, 1527.	3.3	46
54	Multifunctional integrated photonics in the mid-infrared with suspended AlGaAs on silicon. Optica, 2019, 6, 1246.	9.3	46

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55	Direct measurement of polarization resolved transition dipole moment in InGaAs/GaAs quantum dots. Applied Physics Letters, 2003, 82, 4552-4554.	3.2	45
56	Multi-planar amorphous silicon photonics with compact interplanar couplers, cross talk mitigation, and low crossing loss. APL Photonics, 2017, 2, .	5.5	44
57	UV-sensitive superconducting nanowire single photon detectors for integration in an ion trap. Optics Express, 2017, 25, 8705.	3.4	43
58	Circuit designs for superconducting optoelectronic loop neurons. Journal of Applied Physics, 2018, 124, .	2.3	43
59	High-speed >90% quantum-efficiency pâ€"iâ€"n photodiodes with a resonance wavelength adjustable in the 795â€"835 nm range. Applied Physics Letters, 1999, 74, 1072-1074.	3.2	42
60	Photon antibunching at high temperature from a single InGaAs/GaAs quantum dot. Applied Physics Letters, 2004, 84, 1260-1262.	3.2	42
61	Ultra-sensitive mid-infrared emission spectrometer with sub-ns temporal resolution. Optics Express, 2018, 26, 14859.	3.4	42
62	Infrared frequency comb generation and spectroscopy with suspended silicon nanophotonic waveguides. Optica, 2019, 6, 1269.	9.3	42
63	Third-order antibunching from an imperfect single-photon source. Optics Express, 2014, 22, 3244.	3.4	41
64	Versatile silicon-waveguide supercontinuum for coherent mid-infrared spectroscopy. APL Photonics, 2018, 3, .	5.5	41
65	Storage of hyperentanglement in a solid-state quantum memory. Optica, 2015, 2, 279.	9.3	40
66	Passively mode-locked glass waveguide laser with 14-fs timing jitter. Optics Letters, 2003, 28, 2411.	3.3	39
67	Dark pulse quantum dot diode laser. Optics Express, 2010, 18, 13385.	3.4	39
68	A four-pixel single-photon pulse-position array fabricated from WSi superconducting nanowire single-photon detectors. Applied Physics Letters, 2014, 104, 051115.	3.2	39
69	High bandwidth-efficiency resonant cavity enhanced Schottky photodiodes for 800â€"850 nm wavelength operation. Applied Physics Letters, 1998, 72, 2727-2729.	3.2	37
70	Integrated transition edge sensors on titanium in-diffused lithium niobate waveguides. APL Photonics, 2019, 4, 056103.	5.5	37
71	Photoluminescence study of strainâ€induced quantum well dots by wetâ€etching technique. Applied Physics Letters, 1992, 61, 300-302.	3.2	36
72	Separating Homogeneous and Inhomogeneous Line Widths of Heavy- and Light-Hole Excitons in Weakly Disordered Semiconductor Quantum Wells. Journal of Physical Chemistry B, 2011, 115, 5365-5371.	2.7	36

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73	Low-loss, high-bandwidth fiber-to-chip coupling using capped adiabatic tapered fibers. APL Photonics, 2020, 5, .	5.5	36
74	Bimodal size distribution of self-assembledInxGa1â˘’xAsquantum dots. Physical Review B, 2002, 66, .	3.3	34
75	Nanosecond-scale timing jitter for single photon detection in transition edge sensors. Applied Physics Letters, 2013, 102, .	3.2	33
76	Room-temperature-deposited dielectrics and superconductors for integrated photonics. Optics Express, 2017, 25, 10322.	3.4	33
77	Scalable multiphoton quantum metrology with neither pre- nor post-selected measurements. Applied Physics Reviews, 2021, 8, .	11.7	33
78	Laterally oxidized long wavelength cw verticalâ€cavity lasers. Applied Physics Letters, 1996, 69, 471-472.	3.2	32
79	High resolution, high collection efficiency in numerical aperture increasing lens microscopy of individual quantum dots. Applied Physics Letters, 2005, 87, 071905.	3.2	32
80	Quasiparticle recombination in hotspots in superconducting current-carrying nanowires. Physical Review B, 2015, 92, .	3.3	32
81	Multiple large inversions and breakpoint rewiring of gene expression in the evolution of the fire ant social supergene. Proceedings of the Royal Society B: Biological Sciences, 2018, 285, 20180221.	2.8	32
82	Temporal Multimode Storage of Entangled Photon Pairs. Physical Review Letters, 2016, 117, 240506.	8.0	30
83	Single-photon source characterization with twin infrared-sensitive superconducting single-photon detectors. Journal of Applied Physics, 2007, 101, 103104.	2.3	29
84	Submicrometer photoresponse mapping of nanowire superconducting single-photon detectors. Applied Physics Letters, 2007, 91, .	3.2	29
85	Systematic observation of strainâ€induced lateral quantum confinement in GaAs quantum well wires prepared by chemical dry etching. Applied Physics Letters, 1991, 59, 1875-1877.	3.2	28
86	Quantum dot lasersâ€"History and future prospects. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	2.2	27
87	Superconducting optoelectronic single-photon synapses. Nature Electronics, 2022, 5, 650-659.	18.9	27
88	Enhanced light extraction from circular Bragg grating coupled microcavities. Applied Physics Letters, 2006, 89, 033105.	3.2	26
89	Optical constants of (Al0.98Ga0.02)xOy native oxides. Applied Physics Letters, 1998, 73, 3512-3514.	3.2	25
90	High power generation of THz from 1550-nm photoconductive emitters. Optics Express, 2018, 26, 14472.	3.4	25

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91	Overgrowth of InGaAs quantum dots formed by alternating molecular beam epitaxy. Journal of Crystal Growth, 1997, 175-176, 696-701.	1.6	23
92	Effects of As4 flux on reflection high-energy electron diffraction oscillations during growth of GaAs at low temperatures. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1994, 12, 1050.	1.6	21
93	Heralded amplification of photonic qubits. Optics Express, 2016, 24, 125.	3.4	21
94	Optimization of photoluminescence from W centers in silicon-on-insulator. Optics Express, 2020, 28, 16057.	3.4	21
95	High-resolution spectral hole burning in InGaAs-GaAs quantum dots. Applied Physics Letters, 2006, 88, 061114.	3.2	20
96	Investigation of electronic coupling in semiconductor double quantum wells using coherent optical two-dimensional Fourier transform spectroscopy. Solid State Communications, 2009, 149, 361-366.	1.9	20
97	Exploring Links Between Psychosis and Frontotemporal Dementia Using Multimodal Machine Learning. JAMA Psychiatry, 2022, 79, 907.	11.4	20
98	Electronic Enhancement of the Exciton Coherence Time in Charged Quantum Dots. Physical Review Letters, 2016, 116, 037402.	8.0	19
99	InGaAs quantum well wires grown on patterned GaAs substrates. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1992, 10, 697-700.	2.2	18
100	Experimental investigation of the detection mechanism in WSi nanowire superconducting single photon detectors. Applied Physics Letters, 2016, 109, .	3.2	18
101	III-V photonic integrated circuit with waveguide-coupled light-emitting diodes and WSi superconducting single-photon detectors. Applied Physics Letters, 2019, 115, .	3.2	17
102	Mo _x Si_{1â˜’} _x a versatile material for nanowire to microwire single-photon detectors from UV to near IR. Superconductor Science and Technology, 2021, 34, 054001.	3.5	17
103	Quantum phase modulation with acoustic cavities and quantum dots. Optica, 2022, 9, 501.	9.3	17
104	Low temperature limits to molecular beam epitaxy of GaAs. Applied Physics Letters, 1994, 65, 2335-2337.	3.2	16
105	Photon antibunching from a single lithographically defined InGaAs/GaAs quantum dot. Optics Express, 2011, 19, 4182.	3.4	16
106	Large Single-Phonon Optomechanical Coupling Between Quantum Dots and Tightly Confined Surface Acoustic Waves in the Quantum Regime. Physical Review Applied, 2022, 18, .	3.8	16
107	Measuring intensity correlations with a two-element superconducting nanowire single-photon detector. Physical Review A, 2008, 78, .	2.5	15
108	Materials Development for High Efficiency Superconducting Nanowire Single-Photon Detectors. Materials Research Society Symposia Proceedings, 2015, 1807, 1-6.	0.1	15

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109	Arrays of WSi Superconducting Nanowire Single Photon Detectors for Deep-Space Optical Communications. , 2015, , .		15
110	THz Superradiance from a GaAs: ErAs Quantum Dot Array at Room Temperature. Applied Sciences (Switzerland), 2019, 9, 3014.	2.6	15
111	Broadband polarization insensitivity and high detection efficiency in high-fill-factor superconducting microwire single-photon detectors. APL Photonics, 2022, 7, .	5.5	15
112	Operational Analysis of a Quantum Dot Optically Gated Field-Effect Transistor as a Single-Photon Detector. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 967-977.	3.2	14
113	Design of Superconducting Optoelectronic Networks for Neuromorphic Computing. , 2018, , .		14
114	Refraction by Earth's Atmosphere near 12 Microns. Publications of the Astronomical Society of the Pacific, 1999, 111, 512-521.	3.2	13
115	Wavelength Bistability in Two-Section Mode-Locked Quantum-Dot Diode Lasers. IEEE Photonics Technology Letters, 2007, 19, 804-806.	2.5	13
116	Athermal avalanche in bilayer superconducting nanowire single-photon detectors. Applied Physics Letters, 2016, 108, .	3.2	13
117	Abrupt dependence of ultrafast <i>extrinsic</i> photoconductivity on Er fraction in GaAs:Er. Applied Physics Letters, 2017, 111, .	3.2	13
118	Compressive characterization of telecom photon pairs in the spatial and spectral degrees of freedom. Optica, 2018, 5, 1418.	9.3	13
119	Impedance-Matched Differential Superconducting Nanowire Detectors. Physical Review Applied, 2023, 19, .	3.8	13
120	Characterization of InGaAs quantum dot lasers with a single quantum dot layer as an active region. Physica E: Low-Dimensional Systems and Nanostructures, 1998, 2, 738-742.	2.8	12
121	Analysis of photoconductive gain as it applies to single-photon detection. Journal of Applied Physics, 2010, 107, 063110.	2.3	12
122	Microring resonator-coupled photoluminescence from silicon W centers. JPhys Photonics, 2020, 2, 045001.	4.8	12
123	Large-Area 64-pixel Array of WSi Superconducting Nanowire Single Photon Detectors. , 2017, , .		12
124	Single-scan acquisition of multiple multidimensional spectra. Optica, 2019, 6, 735.	9.3	12
125	Observation of increased photoluminescence decay time in strainâ€induced quantumâ€well dots. Applied Physics Letters, 1993, 62, 1376-1378.	3.2	11
126	Directed self-assembly of InAs quantum dots on nano-oxide templates. Applied Physics Letters, 2011, 98, 141112.	3.2	11

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127	Delayed formation of coherence in the emission dynamics of high-Q nanolasers. Optica, 2018, 5, 395.	9.3	11
128	On-chip polarization rotator for type I second harmonic generation. APL Photonics, 2019, 4, 126105.	5.5	11
129	Electrically pumped mode-locked vertical-cavity semiconductor lasers. Optics Letters, 1993, 18, 1937.	3.3	10
130	Towards single-photon spectroscopy in the mid-infrared using superconducting nanowire single-photon detectors. , 2019, , .		10
131	Exceeding 95% system efficiency within the telecom C-band in superconducting nanowire single photon detectors. , 2019, , .		10
132	Narrow photoluminescence linewidths from ensembles of self-assembled InGaAs quantum dots. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2000, 18, 1510.	1.6	9
133	Quantum Dot Single Photon Sources Studied with Superconducting Single Photon Detectors. IEEE Journal of Selected Topics in Quantum Electronics, 2006, 12, 1255-1268.	3.2	9
134	Temperature dependence of the single-photon sensitivity of a quantum dot, optically gated, field-effect transistor. Journal of Applied Physics, 2013, 114, .	2.3	9
135	Laser-lithographically written micron-wide superconducting nanowire single-photon detectors. Superconductor Science and Technology, 2022, 35, 055005.	3.5	9
136	Compound semiconductor oxide antireflection coatings. Journal of Applied Physics, 2000, 87, 7169-7175.	2.3	8
137	Lateral coupling of InxGa1â˘’xAsâ˘•GaAs quantum dots investigated using differential transmission spectroscopy. Physical Review B, 2004, 70, .	3.3	8
138	Designing high electron mobility transistor heterostructures with quantum dots for efficient, number-resolving photon detection. Journal of Vacuum Science & Technology B, 2008, 26, 1174.	1.3	8
139	Wavelength Bistability and Switching in Two-Section Quantum-Dot Diode Lasers. IEEE Journal of Quantum Electronics, 2010, 46, 951-958.	2.0	8
140	Time-resolved photoluminescence of lithographically defined quantum dots fabricated by electron beam lithography and wet chemical etching. Journal of Applied Physics, 2011, 109, 123112.	2.3	8
141	Tungsten Silicide Superconducting Nanowire Single-Photon Test Structures Fabricated Using Optical Lithography. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.7	8
142	Short-wave infrared compressive imaging of single photons. Optics Express, 2018, 26, 15519.	3.4	8
143	Achieving 98% system efficiency at 1550 nm in superconducting nanowire single photon detectors. , 2019, , .		8
144	Infrared wavelength-dependent optical characterization of NbN nanowire superconducting single-photon detectors. Journal of Modern Optics, 2009, 56, 358-363.	1.4	7

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145	The perils of post-persons. Journal of Medical Ethics, 2013, 39, 80-81.	2.4	7
146	Formation of InAs/GaAs quantum dots by dewetting during cooling. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2002, 20, 1489.	1.6	6
147	Homogeneous linewidth narrowing of the charged exciton via nuclear spin screening in an InAs/GaAs quantum dot ensemble. Physical Review B, 2014, 90, .	3.3	6
148	Integrated superconducting nanowire single-photon detectors on titanium in-diffused lithium niobate waveguides. JPhys Photonics, 2021, 3, 034022.	4.8	6
149	Observation of quasi-periodic facet formation during high temperature growth of AlAs and AlAs/GaAs superlattices. Journal of Crystal Growth, 1993, 127, 908-912.	1.6	5
150	Fabrication and characteristics of double-fused vertical-cavity lasers. Optical and Quantum Electronics, 1996, 28, 475-485.	3.3	5
151	Single-Photon and Photon-Number-Resolving Detectors. IEEE Photonics Journal, 2012, 4, 629-632.	2.0	5
152	GaAs buffer layer morphology and lateral distributions of InGaAs quantum dots. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 1226.	1.6	4
153	Quadrature demodulation of a quantum dot optical response to faint light fields. Optica, 2016, 3, 1397.	9.3	4
154	Fast transition-edge sensors suitable for photonic quantum computing. Journal of Applied Physics, 2023, 133, .	2.3	4
155	Trap-integrated superconducting nanowire single-photon detectors with improved rf tolerance for trapped-ion qubit state readout. Applied Physics Letters, 2023, 122, .	3.2	4
156	Investigation of the Shape of InGaAs/GaAs Quantum Dots. Materials Research Society Symposia Proceedings, 2002, 737, 120.	0.1	3
157	High-Resolution Spectroscopic Measurements of InGaAs/GaAs Self-Assembled Quantum Dots. ECS Transactions, 2006, 2, 15-25.	0.6	3
158	Fast lifetime measurements of infrared emitters with low-jitter superconducting single photon detectors. , 2006, , .		3
159	Intensity dynamics in a waveguide array laser. Optics Communications, 2011, 284, 971-978.	2.2	3
160	Monolithic device for modelocking and stabilization of frequency combs. Optics Express, 2015, 23, 33038.	3.4	3
161	A 64-pixel mid-infrared single-photon imager based on superconducting nanowire detectors. Applied Physics Letters, 2024, 124, .	3.2	3
162	Transverse-mode & polarization characteristics of double-fused 1.52 Î¼m vertical-cavity lasers. III-Vs Review, 1996, 9, 36-40.	0.0	2

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163	Time-correlated single-photon counting with superconducting single-photon detectors. , 2006, , .		2
164	Single-photon detection using a semiconductor quantum dot, optically gated, field-effect transistor. , 2006, , .		2
165	Single photon source characterization with a superconducting single photon detector. , 2006, , .		2
166	Photon-number discrimination using a semiconductor quantum dot, optically gated, field-effect transistor. Proceedings of SPIE, 2007, , .	1.0	2
167	GaAsâˆ•AlOx micropillar fabrication for small mode volume photon sources. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, 157-162.	1.3	2
168	Observing the average trajectories of single photons in a two-slit interferometer. , 2011, , .		2
169	Microresonator-enhanced, Waveguide-coupled Emission from Silicon Defect Centers for Superconducting Optoelectronic Networks. , 2020, , .		2
170	Multimode lasing at room temperature from InGaAs/GaAs quantum dot lasers. , 2001, , .		1
171	Recent advances in solid-state single photon detectors. , 2006, , .		1
172	Reducing the oscillator strength in semiconductor quantum dots with a lateral electric field. , 2008, , .		1
173	Nano-optical studies of superconducting nanowire single-photon detectors. Proceedings of SPIE, 2009, , .	1.0	1
174	Quantum interference control of photocurrent injection inÂEr-doped GaAs. Applied Physics B: Lasers and Optics, 2010, 98, 333-336.	2.1	1
175	Ultrafast optical properties of lithographically defined quantum dot amplifiers. Applied Physics Letters, 2014, 104, 061106.	3.2	1
176	Hotspot Dynamics in Current Carrying WSi Superconducting Nanowires. , 2014, , .		1
177	A Hybrid III-V-Graphene Device for Modelocking and Noise Suppression in a Frequency Comb. , 2015, , .		1
178	Impedance-matched differential SNSPDs for practical photon counting with sub-10 ps timing jitter. , 2021, , .		1
179	Superconducting Nanowire Single Photon Detectors with High System Detection Efficiency at Telecom Wavelengths. , 2013, , .		1
180	Temporal Magnification with Picosecond Resolution at the Single-photon Level. , 2016, , .		1

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181	Photon-Efficient High-Dimensional Quantum Key Distribution. , 2014, , .		1
182	High-efficiency UV Superconducting Nanowire Single-photon Detectors from Amorphous MoSi. , 2016, , .		1
183	High-efficiency, low noise UV superconducting nanowire single-photon detectors operating above 4 K. , 2017, , .		1
184	A short-wave infrared single photon camera. , 2017, , .		1
185	Ultrafast resonant-cavity-enhanced Schottky photodiodes. , 1997, 3290, 41.		0
186	High-Speed Resonant Cavity Enhanced Photodiodes. Optics and Photonics News, 1999, 10, 13.	0.7	0
187	Carrier dynamics and homogeneous broadening in quantum dot waveguides. , 2005, , .		0
188	HEMT Amplified SET Measurements of Individual InGaAs Quantum Dots. AIP Conference Proceedings, 2005, , .	1.0	0
189	Enhanced light extraction from circular Bragg grating coupled microcavities. , 2006, , .		0
190	Temperature-dependent saturation fluence in InGaAs quantum dots based on direct absorption measurements. , 2006, , .		0
191	Photon-number-resolving capabilities of a semiconductor quantum dot, optically gated, field-effect transistor. , 2007, , .		0
192	Bistable lasing wavelength in a mode-locked two-section quantum-dot diode laser. , 2007, , .		0
193	Dark pulse diode laser. , 2008, , .		0
194	Topography of epitaxial GaAs surfaces for growth. Journal of Vacuum Science & Technology B, 2009, 27, 1072.	1.3	0
195	Optical and near-infrared photon detection with superconducting devices. , 2011, , .		0
196	High-efficiency Bragg grating enhanced on-chip photon-number-resolving detectors. , 2013, , .		0
197	Progress and prospects for high efficiency and gigacount per second detectors for quantum repeaters using superconducting nanowire detectors. , 2014, , .		0
198	Gain and Loss in Active Waveguides Based on Lithographically Defined Quantum Dots. IEEE Photonics Technology Letters, 2014, 26, 1283-1286.	2.5	0

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199	Attosecond Timing Jitter Characterization of Mode-locked Lasers Using Optical Heterodyne Techniques. , 2015, , .		0
200	Polarization-Insensitive Superconducting Nanowire Single-Photon Detectors. , 2015, , .		0
201	Quantum Teleportation over 100 km of Fiber using MoSi Superconducting Nanowire Single-Photon Detectors. , 2015, , .		0
202	Recent advances in superconducting nanowire single photon detectors for single-photon imaging. Proceedings of SPIE, 2016, , .	1.0	0
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