Richard P Mirin

List of Publications by Year
in descending order

221 papers	9,423 citations	46636 47 h-index	43165 92 g-index
223 all docs	223 docs citations	223 times ranked	8430 citing authors

#	Article	IF	Citations
1	A 64-pixel mid-infrared single-photon imager based on superconducting nanowire detectors. Applied Physics Letters, 2024, 124, .	3.2	3
2	Programmable superconducting optoelectronic single-photon synapses with integrated multi-state memory. , 2024, 2, .		0
3	Efficient and widely tunable mid-infrared sources using GaAs and AlGaAs integrated platforms for second-order frequency conversion. Optics Express, 2024, 32, 36986.	3.4	0
4	Gated InAs quantum dots embedded in surface acoustic wave cavities for low-noise optomechanics. Optics Express, 2024, 32, 38384.	3.4	0
5	Fast transition-edge sensors suitable for photonic quantum computing. Journal of Applied Physics, 2023, 133, .	2.3	4
6	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
7	Impedance-Matched Differential Superconducting Nanowire Detectors. Physical Review Applied, 2023, 19, .	3.8	13
8	Monolithic polarizing circular dielectric gratings on bulk substrates for improved photon collection from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mrow><mml:mi>In</mml:mi><mml:mi>As</mml:mi></mml:mrow></mml:math> quantum dots. Physical Review Applied, 2023, 20, .	3.8	0
9	Laser-lithographically written micron-wide superconducting nanowire single-photon detectors. Superconductor Science and Technology, 2022, 35, 055005.	3.5	9
10	Quantum phase modulation with acoustic cavities and quantum dots. Optica, 2022, 9, 501.	9.3	17
11	Broadband polarization insensitivity and high detection efficiency in high-fill-factor superconducting microwire single-photon detectors. APL Photonics, 2022, 7, .	5.5	15
12	Exploring Links Between Psychosis and Frontotemporal Dementia Using Multimodal Machine Learning. JAMA Psychiatry, 2022, 79, 907.	11.4	20
13	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
14	Superconducting optoelectronic single-photon synapses. Nature Electronics, 2022, 5, 650-659.	18.9	27
15	Impedance-matched differential SNSPDs for practical photon counting with sub-10 ps timing jitter. , 2021, , .		1
16	Quantum dot lasersâ€"History and future prospects. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	2.2	27
17	Mo _x Si_{1âˆ’} _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
18	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

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19	Fabricating WSi based superconducting microwire single photon detectors with laser lithography. , 2021, , .		0
20	Integrated superconducting nanowire single-photon detectors on titanium in-diffused lithium niobate waveguides. JPhys Photonics, 2021, 3, 034022.	4.8	6
21	Device-independent randomness expansion with entangled photons. Nature Physics, 2021, 17, 452-456.	11.8	49
22	State Readout of a Trapped Ion Qubit Using a Trap-Integrated Superconducting Photon Detector. Physical Review Letters, 2021, 126, 010501.	8.0	56
23	Scalable multiphoton quantum metrology with neither pre- nor post-selected measurements. Applied Physics Reviews, 2021, 8, .	11.7	33
24	Superconducting microwire detectors based on WSi with single-photon sensitivity in the near-infrared. Applied Physics Letters, 2020, 116, .	3.2	52
25	Low-loss, high-bandwidth fiber-to-chip coupling using capped adiabatic tapered fibers. APL Photonics, 2020, 5, .	5.5	36
26	Demonstration of sub-3 ps temporal resolution with a superconducting nanowire single-photon detector. Nature Photonics, 2020, 14, 250-255.	23.1	321
27	Microring resonator-coupled photoluminescence from silicon W centers. JPhys Photonics, 2020, 2, 045001.	4.8	12
28	Optimization of photoluminescence from W centers in silicon-on-insulator. Optics Express, 2020, 28, 16057.	3.4	21
29	Efficient second harmonic generation in nanophotonic GaAs-on-insulator waveguides. Optics Express, 2020, 28, 9521.	3.4	47
30	Superconducting nanowire single-photon detectors with 98% system detection efficiency at 1550â€‰â€‰nm. Optica, 2020, 7, 1649.	9.3	207
31	Microresonator-enhanced, Waveguide-coupled Emission from Silicon Defect Centers for Superconducting Optoelectronic Networks. , 2020, , .		2
32	Integrated transition edge sensors on titanium in-diffused lithium niobate waveguides. APL Photonics, 2019, 4, 056103.	5.5	37
33	Quantum frequency conversion of a quantum dot single-photon source on a nanophotonic chip. Optica, 2019, 6, 563.	9.3	61
34	THz Superradiance from a GaAs: ErAs Quantum Dot Array at Room Temperature. Applied Sciences (Switzerland), 2019, 9, 3014.	2.6	15
35	Superconducting optoelectronic loop neurons. Journal of Applied Physics, 2019, 126, .	2.3	56
36	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

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37	Multiphoton quantum-state engineering using conditional measurements. Npj Quantum Information, 2019, 5, .	6.8	66
38	On-chip polarization rotator for type I second harmonic generation. APL Photonics, 2019, 4, 126105.	5.5	11
39	Towards single-photon spectroscopy in the mid-infrared using superconducting nanowire single-photon detectors. , 2019, , .		10
40	Exceeding 95% system efficiency within the telecom C-band in superconducting nanowire single photon detectors. , 2019, , .		10
41	Achieving 98% system efficiency at 1550 nm in superconducting nanowire single photon detectors. , 2019, , .		8
42	Kilopixel array of superconducting nanowire single-photon detectors. Optics Express, 2019, 27, 35279.	3.4	125
43	Single-scan acquisition of multiple multidimensional spectra. Optica, 2019, 6, 735.	9.3	12
44	Multifunctional integrated photonics in the mid-infrared with suspended AlGaAs on silicon. Optica, 2019, 6, 1246.	9.3	46
45	Infrared frequency comb generation and spectroscopy with suspended silicon nanophotonic waveguides. Optica, 2019, 6, 1269.	9.3	42
46	Versatile silicon-waveguide supercontinuum for coherent mid-infrared spectroscopy. APL Photonics, 2018, 3, .	5.5	41
47	Design of Superconducting Optoelectronic Networks for Neuromorphic Computing. , 2018, , .		14
48	Circuit designs for superconducting optoelectronic loop neurons. Journal of Applied Physics, 2018, 124, .	2.3	43
49	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
50	Deuterated silicon nitride photonic devices for broadband optical frequency comb generation. Optics Letters, 2018, 43, 1527.	3.3	46
51	High power generation of THz from 1550-nm photoconductive emitters. Optics Express, 2018, 26, 14472.	3.4	25
52	Ultra-sensitive mid-infrared emission spectrometer with sub-ns temporal resolution. Optics Express, 2018, 26, 14859.	3.4	42
53	Short-wave infrared compressive imaging of single photons. Optics Express, 2018, 26, 15519.	3.4	8
54	Delayed formation of coherence in the emission dynamics of high-Q nanolasers. Optica, 2018, 5, 395.	9.3	11

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55	Design, fabrication, and metrology of 10 Ã— 100 multi-planar integrated photonic routing manifolds for neural networks. APL Photonics, 2018, 3, .	5.5	47
56	Compressive characterization of telecom photon pairs in the spatial and spectral degrees of freedom. Optica, 2018, 5, 1418.	9.3	13
57	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
58	Superconducting Optoelectronic Circuits for Neuromorphic Computing. Physical Review Applied, 2017, 7, .	3.8	154
59	All-silicon light-emitting diodes waveguide-integrated with superconducting single-photon detectors. Applied Physics Letters, 2017, 111, .	3.2	71
60	Heterogeneous integration for on-chip quantum photonic circuits with single quantum dot devices. Nature Communications, 2017, 8, 889.	13.2	196
61	Abrupt dependence of ultrafast <i>extrinsic</i> photoconductivity on Er fraction in GaAs:Er. Applied Physics Letters, 2017, 111, .	3.2	13
62	Fano fluctuations in superconducting-nanowire single-photon detectors. Physical Review B, 2017, 96, .	3.3	46
63	Multi-planar amorphous silicon photonics with compact interplanar couplers, cross talk mitigation, and low crossing loss. APL Photonics, 2017, 2, .	5.5	44
64	UV-sensitive superconducting nanowire single photon detectors for integration in an ion trap. Optics Express, 2017, 25, 8705.	3.4	43
65	Room-temperature-deposited dielectrics and superconductors for integrated photonics. Optics Express, 2017, 25, 10322.	3.4	33
66	UV superconducting nanowire single-photon detectors with high efficiency, low noise, and 4 K operating temperature. Optics Express, 2017, 25, 26792.	3.4	73
67	Efficient fiber-coupled single-photon source based on quantum dots in a photonic-crystal waveguide. Optica, 2017, 4, 178.	9.3	93
68	Large-Area 64-pixel Array of WSi Superconducting Nanowire Single Photon Detectors. , 2017, , .		12
69	High-efficiency, low noise UV superconducting nanowire single-photon detectors operating above 4 K. , 2017, , .		1
70	Bandwidth-enhanced Superconducting Nanowire Single Photon Detectors for Telecom Wavelengths. , 2017, , .		0
71	A short-wave infrared single photon camera. , 2017, , .		1
72	Quadrature demodulation of a quantum dot optical response to faint light fields. Optica, 2016, 3, 1397.	9.3	4

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73	Temporal Multimode Storage of Entangled Photon Pairs. Physical Review Letters, 2016, 117, 240506.	8.0	30
74	Recent advances in superconducting nanowire single photon detectors for single-photon imaging. Proceedings of SPIE, 2016, , .	1.0	0
75	Ultra-low-noise monolithic mode-locked solid-state laser. Optica, 2016, 3, 995.	9.3	62
76	Heralded amplification of photonic qubits. Optics Express, 2016, 24, 125.	3.4	21
77	Hotspot relaxation dynamics in a current-carrying superconductor. Physical Review B, 2016, 93, .	3.3	46
78	Electronic Enhancement of the Exciton Coherence Time in Charged Quantum Dots. Physical Review Letters, 2016, 116, 037402.	8.0	19
79	Athermal avalanche in bilayer superconducting nanowire single-photon detectors. Applied Physics Letters, 2016, 108, .	3.2	13
80	Experimental investigation of the detection mechanism in WSi nanowire superconducting single photon detectors. Applied Physics Letters, 2016, 109, .	3.2	18
81	Temporal Magnification with Picosecond Resolution at the Single-photon Level. , 2016, , .		1
82	High-efficiency UV Superconducting Nanowire Single-photon Detectors from Amorphous MoSi. , 2016, , .		1
83	Electronic Control of Exciton Coherence in a Charged Quantum Dot Photonic Waveguide. , 2016, , .		0
84	Materials Development for High Efficiency Superconducting Nanowire Single-Photon Detectors. Materials Research Society Symposia Proceedings, 2015, 1807, 1-6.	0.1	15
85	Strong Loophole-Free Test of Local Realism. Physical Review Letters, 2015, 115, 250402.	8.0	957
86	High-efficiency superconducting nanowire single-photon detectors fabricated from MoSi thin-films. Optics Express, 2015, 23, 33792.	3.4	114
87	Attosecond Timing Jitter Characterization of Mode-locked Lasers Using Optical Heterodyne Techniques. , 2015, , .		0
88	Monolithic device for modelocking and stabilization of frequency combs. Optics Express, 2015, 23, 33038.	3.4	3
89	Polarization-Insensitive Superconducting Nanowire Single-Photon Detectors. , 2015, , .		0
90	Quantum-correlated photon pairs generated in a commercial 45â€‰â€‰nm complementary metal-oxide semiconductor microelectronic chip. Optica, 2015, 2, 1065.	9.3	57

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91	Spectral correlation measurements at the Hong-Ou-Mandel interference dip. Physical Review A, 2015, 91, .	2.5	58
92	Photon-efficient quantum key distribution using timeâ€"energy entanglement with high-dimensional encoding. New Journal of Physics, 2015, 17, 022002.	2.9	163
93	Tungsten Silicide Superconducting Nanowire Single-Photon Test Structures Fabricated Using Optical Lithography. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.7	8
94	Storage of hyperentanglement in a solid-state quantum memory. Optica, 2015, 2, 279.	9.3	40
95	Quantum teleportation over 100â€‰â€‰km of fiber using highly efficient superconducting nanowire single-photon detectors. Optica, 2015, 2, 832.	9.3	105
96	Quasiparticle recombination in hotspots in superconducting current-carrying nanowires. Physical Review B, 2015, 92, .	3.3	32
97	A near-infrared 64-pixel superconducting nanowire single photon detector array with integrated multiplexed readout. Applied Physics Letters, 2015, 106, .	3.2	113
98	A Hybrid III-V-Graphene Device for Modelocking and Noise Suppression in a Frequency Comb. , 2015, , .		1
99	Quantum Teleportation over 100 km of Fiber using MoSi Superconducting Nanowire Single-Photon Detectors. , 2015, , .		0
100	Arrays of WSi Superconducting Nanowire Single Photon Detectors for Deep-Space Optical Communications. , 2015, , .		15
101	Charged Exciton Linewidth Narrowing via Nuclear Spin Screening in an InAs QD Ensemble. , 2015, , .		0
102	Large-Area Arrays of WSi Superconducting Nanowire Single Photon Detectors. , 2015, , .		0
103	Progress and prospects for high efficiency and gigacount per second detectors for quantum repeaters using superconducting nanowire detectors. , 2014, , .		0
104	Third-order antibunching from an imperfect single-photon source. Optics Express, 2014, 22, 3244.	3.4	41
105	Ultrafast optical properties of lithographically defined quantum dot amplifiers. Applied Physics Letters, 2014, 104, 061106.	3.2	1
106	Entanglement-based quantum communication secured by nonlocal dispersion cancellation. Physical Review A, 2014, 90, .	2.5	56
107	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
108	High-efficiency WSi superconducting nanowire single-photon detectors operating at 2.5â€‰K. Applied Physics Letters, 2014, 105, .	3.2	54

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109	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
110	Superconducting nanowire single photon detectors fabricated from an amorphous Mo0.75Ge0.25 thin film. Applied Physics Letters, 2014, 105, .	3.2	58
111	Direct generation of three-photon polarization entanglement. Nature Photonics, 2014, 8, 801-807.	23.1	131
112	Gain and Loss in Active Waveguides Based on Lithographically Defined Quantum Dots. IEEE Photonics Technology Letters, 2014, 26, 1283-1286.	2.5	0
113	Hotspot Dynamics in Current Carrying WSi Superconducting Nanowires. , 2014, , .		1
114	High-efficiency superconducting nanowire single photon detectors based on amorphous Mo0.75Ge0.25. , 2014, , .		0
115	Photon-Efficient High-Dimensional Quantum Key Distribution. , 2014, , .		1
116	Detecting single infrared photons with 93% system efficiency. Nature Photonics, 2013, 7, 210-214.	23.1	988
117	The perils of post-persons. Journal of Medical Ethics, 2013, 39, 80-81.	2.4	7
118	Nanosecond-scale timing jitter for single photon detection in transition edge sensors. Applied Physics Letters, 2013, 102, .	3.2	33
119	High quantum-efficiency photon-number-resolving detector for photonic on-chip information processing. Optics Express, 2013, 21, 22657.	3.4	105
120	High-efficiency Bragg grating enhanced on-chip photon-number-resolving detectors. , 2013, , .		0
121	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
122	Superconducting Nanowire Single Photon Detectors with High System Detection Efficiency at Telecom Wavelengths. , 2013, , .		1
123	Joint Spectral Measurements at the Hong-Ou-Mandel Interference Dip. , 2013, , .		0
124	Operating Temperature Dependence of QDOGFET Single-Photon Detectors. , 2013, , .		0
125	Extending single-photon optimized superconducting transition edge sensors beyond the single-photon counting regime. Optics Express, 2012, 20, 23798.	3.4	47
126	Single-Photon and Photon-Number-Resolving Detectors. IEEE Photonics Journal, 2012, 4, 629-632.	2.0	5

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127	A three-dimensional, polarization-insensitive superconducting nanowire avalanche photodetector. Applied Physics Letters, 2012, 101, .	3.2	117
128	Exotic Behavior in Quantum Dot Mode-Locked Lasers: Dark Pulses and Bistability. , 2012, , 23-48.		0
129	Observing the average trajectories of single photons in a two-slit interferometer. , 2011, , .		2
130	Photon antibunching from a single lithographically defined InGaAs/GaAs quantum dot. Optics Express, 2011, 19, 4182.	3.4	16
131	Generation of degenerate, factorizable, pulsed squeezed light at telecom wavelengths. Optics Express, 2011, 19, 24434.	3.4	68
132	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
133	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
134	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
135	Intensity dynamics in a waveguide array laser. Optics Communications, 2011, 284, 971-978.	2.2	3
136	Directed self-assembly of InAs quantum dots on nano-oxide templates. Applied Physics Letters, 2011, 98, 141112.	3.2	11
137	On-chip, photon-number-resolving, telecommunication-band detectors for scalable photonic information processing. Physical Review A, 2011, 84, .	2.5	80
138	Optical and near-infrared photon detection with superconducting devices. , 2011, , .		0
139	Quantum interference control of photocurrent injection inÂEr-doped GaAs. Applied Physics B: Lasers and Optics, 2010, 98, 333-336.	2.1	1
140	Wavelength Bistability and Switching in Two-Section Quantum-Dot Diode Lasers. IEEE Journal of Quantum Electronics, 2010, 46, 951-958.	2.0	8
141	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
142	Analysis of photoconductive gain as it applies to single-photon detection. Journal of Applied Physics, 2010, 107, 063110.	2.3	12
143	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
144	Extraction of Many-Body Configurations from Nonlinear Absorption in Semiconductor Quantum Wells. Physical Review Letters, 2010, 104, 247401.	8.0	54

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145	Dark pulse quantum dot diode laser. Optics Express, 2010, 18, 13385.	3.4	39
146	High-order temporal coherences ofâ€¨chaotic and laser light. Optics Express, 2010, 18, 1430.	3.4	62
147	Generation of optical coherent-state superpositions by number-resolved photon subtraction from the squeezed vacuum. Physical Review A, 2010, 82, .	2.5	217
148	Many-body two-quantum coherences in 2D Fourier-Transform spectra of semiconductors. , 2010, , .		0
149	Bistable wavelength switching in a two-section quantum-dot mode-locked diode laser. , 2010, , .		0
150	Topography of epitaxial GaAs surfaces for growth. Journal of Vacuum Science & Technology B, 2009, 27, 1072.	1.3	0
151	Infrared wavelength-dependent optical characterization of NbN nanowire superconducting single-photon detectors. Journal of Modern Optics, 2009, 56, 358-363.	1.4	7
152	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
153	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
154	Nano-optical studies of superconducting nanowire single-photon detectors. Proceedings of SPIE, 2009, , .	1.0	1
155	Measuring intensity correlations with a two-element superconducting nanowire single-photon detector. Physical Review A, 2008, 78, .	2.5	15
156	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
157	Dark pulse diode laser. , 2008, , .		0
158	Reducing the oscillator strength in semiconductor quantum dots with a lateral electric field. , 2008, , .		1
159	Improving squeezing purity from a KNbO<inf>3</inf> crystal by temperature tuning. , 2008, , .		0
160	Photon-number-resolving capabilities of a semiconductor quantum dot, optically gated, field-effect transistor. , 2007, , .		0
161	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
162	Bistable lasing wavelength in a mode-locked two-section quantum-dot diode laser. , 2007, , .		0

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163	Single-photon source characterization with twin infrared-sensitive superconducting single-photon detectors. Journal of Applied Physics, 2007, 101, 103104.	2.3	29
164	Submicrometer photoresponse mapping of nanowire superconducting single-photon detectors. Applied Physics Letters, 2007, 91, .	3.2	29
165	Photon-number discrimination using a semiconductor quantum dot, optically gated, field-effect transistor. Proceedings of SPIE, 2007, , .	1.0	2
166	Wavelength Bistability in Two-Section Mode-Locked Quantum-Dot Diode Lasers. IEEE Photonics Technology Letters, 2007, 19, 804-806.	2.5	13
167	Photon-number-discriminating detection using a quantum-dot, optically gated, field-effect transistor. Nature Photonics, 2007, 1, 585-588.	23.1	107
168	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
169	High-resolution spectral hole burning in InGaAs-GaAs quantum dots. Applied Physics Letters, 2006, 88, 061114.	3.2	20
170	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
171	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
172	Fast lifetime measurements of infrared emitters using a low-jitter superconducting single-photon detector. Applied Physics Letters, 2006, 89, 031109.	3.2	76
173	High-Resolution Spectroscopic Measurements of InGaAs/GaAs Self-Assembled Quantum Dots. ECS Transactions, 2006, 2, 15-25.	0.6	3
174	Time-correlated single-photon counting with superconducting single-photon detectors. , 2006, , .		2
175	Enhanced light extraction from circular Bragg grating coupled microcavities. Applied Physics Letters, 2006, 89, 033105.	3.2	26
176	Single-photon detection using a semiconductor quantum dot, optically gated, field-effect transistor. , 2006, , .		2
177	Recent advances in solid-state single photon detectors. , 2006, , .		1
178	Enhanced light extraction from circular Bragg grating coupled microcavities. , 2006, , .		0
179	Temperature-dependent saturation fluence in InGaAs quantum dots based on direct absorption measurements. , 2006, , .		0
180	Single photon source characterization with a superconducting single photon detector. , 2006, , .		2

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181	Fast lifetime measurements of infrared emitters with low-jitter superconducting single photon detectors. , 2006, , .		3
182	Carrier dynamics and homogeneous broadening in quantum dot waveguides. , 2005, , .		0
183	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
184	HEMT Amplified SET Measurements of Individual InGaAs Quantum Dots. AIP Conference Proceedings, 2005, , .	1.0	0
185	High resolution, high collection efficiency in numerical aperture increasing lens microscopy of individual quantum dots. Applied Physics Letters, 2005, 87, 071905.	3.2	32
186	Single photon source characterization with a superconducting single photon detector. Optics Express, 2005, 13, 10846.	3.4	146
187	Photon antibunching at high temperature from a single InGaAs/GaAs quantum dot. Applied Physics Letters, 2004, 84, 1260-1262.	3.2	42
188	Lateral coupling of InxGa1â^'xAsâ^•GaAs quantum dots investigated using differential transmission spectroscopy. Physical Review B, 2004, 70, .	3.3	8
189	Passively mode-locked glass waveguide laser with 14-fs timing jitter. Optics Letters, 2003, 28, 2411.	3.3	39
190	Direct measurement of polarization resolved transition dipole moment in InGaAs/GaAs quantum dots. Applied Physics Letters, 2003, 82, 4552-4554.	3.2	45
191	Bimodal size distribution of self-assembledInxGa1â^'xAsquantum dots. Physical Review B, 2002, 66, .	3.3	34
192	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
193	Investigation of the Shape of InGaAs/GaAs Quantum Dots. Materials Research Society Symposia Proceedings, 2002, 737, 120.	0.1	3
194	Multimode lasing at room temperature from InGaAs/GaAs quantum dot lasers. , 2001, , .		1
195	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
196	Compound semiconductor oxide antireflection coatings. Journal of Applied Physics, 2000, 87, 7169-7175.	2.3	8
197	Growth, characterization, and applications of self-assembled InGaAs quantum dots. , 2000, , 183-231.		0
198	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

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199	Refraction by Earth's Atmosphere near 12 Microns. Publications of the Astronomical Society of the Pacific, 1999, 111, 512-521.	3.2	13
200	High-Speed Resonant Cavity Enhanced Photodiodes. Optics and Photonics News, 1999, 10, 13.	0.7	0
201	High-Speed Resonant Cavity Enhanced Photodiodes with Near-Unity Quantum Efficiency. , 1999, , .		0
202	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
203	High bandwidth-efficiency resonant cavity enhanced Schottky photodiodes for 800â€“850 nm wavelength operation. Applied Physics Letters, 1998, 72, 2727-2729.	3.2	37
204	Optical constants of (Al0.98Ga0.02)xOy native oxides. Applied Physics Letters, 1998, 73, 3512-3514.	3.2	25
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