Val Zwiller

List of Publications by Year
in descending order

194 papers	10,526 citations	25014 57 h-index	34964 98 g-index
198 all docs	198 docs citations	198 times ranked	9061 citing authors

#	Article	IF	Citations
1	Large and Tunable Photothermoelectric Effect in Single-Layer MoS₂. Nano Letters, 2013, 13, 358-363.	4.5	566
2	Hybrid integrated quantum photonic circuits. Nature Photonics, 2020, 14, 285-298.	15.6	411
3	On-chip quantum interference between silicon photon-pair sources. Nature Photonics, 2014, 8, 104-108.	15.6	407
4	Bright single-photon sources in bottom-up tailored nanowires. Nature Communications, 2012, 3, 737.	5.8	365
5	Single Quantum Dot Nanowire LEDs. Nano Letters, 2007, 7, 367-371.	4.5	349
6	Optically Bright Quantum Dots in Single Nanowires. Nano Letters, 2005, 5, 1439-1443.	4.5	266
7	Kilometer-range, high resolution depth imaging via 1560 nm wavelength single-photon detection. Optics Express, 2013, 21, 8904.	1.7	239
8	Crystal Phase Quantum Dots. Nano Letters, 2010, 10, 1198-1201.	4.5	233
9	Single quantum dots emit single photons at a time: Antibunching experiments. Applied Physics Letters, 2001, 78, 2476-2478.	1.5	213
10	On-demand generation of background-free single photons from a solid-state source. Applied Physics Letters, 2018, 112, .	1.5	204
11	Crystal field, phonon coupling and emission shift of Mn2+ in ZnS:Mn nanoparticles. Journal of Applied Physics, 2001, 89, 1120-1129.	1.1	185
12	Observation of strongly entangled photon pairs from a nanowire quantum dot. Nature Communications, 2014, 5, 5298.	5.8	179
13	Tuning the Exciton Binding Energies in Single Self-Assembled<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>InGaAs</mml:mi><mml:mo>/</mml:mo><mml:mi>GaAs</mml:mi></mml:math>Quantum Dots by Piezoelectric-Induced Biaxial Stress. Physical Review Letters, 2010, 104, 067405.	2.9	160
14	Quantum interference in plasmonic circuits. Nature Nanotechnology, 2013, 8, 719-722.	15.6	159
15	Growth and characterization of single quantum dots emitting at 1300 nm. Applied Physics Letters, 2005, 86, 101908.	1.5	153
16	Deterministic Integration of Single Photon Sources in Silicon Based Photonic Circuits. Nano Letters, 2016, 16, 2289-2294.	4.5	151
17	Ultraclean Emission from InAsP Quantum Dots in Defect-Free Wurtzite InP Nanowires. Nano Letters, 2012, 12, 5919-5923.	4.5	144
18	Photon pair generation in a silicon micro-ring resonator with reverse bias enhancement. Optics Express, 2013, 21, 27826.	1.7	137

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19	On-chip single photon filtering and multiplexing in hybrid quantum photonic circuits. Nature Communications, 2017, 8, 379.	5.8	134
20	Singlet oxygen luminescence detection with a fiber-coupled superconducting nanowire single-photon detector. Optics Express, 2013, 21, 5005.	1.7	125
21	Superconducting nanowire single-photon detectors: A perspective on evolution, state-of-the-art, future developments, and applications. Applied Physics Letters, 2021, 118, .	1.5	124
22	Low noise superconducting single photon detectors on silicon. Applied Physics Letters, 2008, 93, .	1.5	120
23	Single-photon detectors combining high efficiency, high detection rates, and ultra-high timing resolution. APL Photonics, 2017, 2, .	3.0	118
24	Hybrid semiconductor-atomic interface: slowing down single photons from a quantum dot. Nature Photonics, 2011, 5, 230-233.	15.6	113
25	Solid-state single photon sources: light collection strategies. European Physical Journal D, 2002, 18, 197-210.	0.6	112
26	A light-hole exciton in a quantum dot. Nature Physics, 2014, 10, 46-51.	6.5	111
27	Growth and Characterization of InP Nanowires with InAsP Insertions. Nano Letters, 2007, 7, 1500-1504.	4.5	110
28	Nanowire Waveguides Launching Single Photons in a Gaussian Mode for Ideal Fiber Coupling. Nano Letters, 2014, 14, 4102-4106.	4.5	107
29	Growth and optical properties of axial hybrid IIIâ€“V/silicon nanowires. Nature Communications, 2012, 3, 1266.	5.8	105
30	Time-resolved and antibunching experiments on single quantum dots at 1300nm. Applied Physics Letters, 2006, 88, 131102.	1.5	101
31	Detecting telecom single photons with 99.5â ̂'2.07+0.5% system detection efficiency and high time resolution. APL Photonics, 2021, 6, .	3.0	100
32	Enhanced telecom wavelength single-photon detection with NbTiN superconducting nanowires on oxidized silicon. Applied Physics Letters, 2010, 96, .	1.5	99
33	Generating visible single photons on demand with single InP quantum dots. Applied Physics Letters, 2003, 82, 1509-1511.	1.5	98
34	Gallium arsenide (GaAs) quantum photonic waveguide circuits. Optics Communications, 2014, 327, 49-55.	1.0	98
35	Avalanche amplification of a single exciton in a semiconductor nanowire. Nature Photonics, 2012, 6, 455-458.	15.6	95
36	Entanglement Swapping with Photons Generated on Demand by a Quantum Dot. Physical Review Letters, 2019, 123, 160501.	2.9	88

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37	Fast Path and Polarization Manipulation of Telecom Wavelength Single Photons in Lithium Niobate Waveguide Devices. Physical Review Letters, 2012, 108, 053601.	2.9	87
38	Phonon-Assisted Two-Photon Interference from Remote Quantum Emitters. Nano Letters, 2017, 17, 4090-4095.	4.5	87
39	Entanglement distribution over a 96-km-long submarine optical fiber. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6684-6688.	3.3	85
40	Thermo-Optic Characterization of Silicon Nitride Resonators for Cryogenic Photonic Circuits. IEEE Photonics Journal, 2016, 8, 1-9.	1.0	83
41	Bright Single InAsP Quantum Dots at Telecom Wavelengths in Position-Controlled InP Nanowires: The Role of the Photonic Waveguide. Nano Letters, 2018, 18, 3047-3052.	4.5	80
42	Selective Excitation and Detection of Spin States in a Single Nanowire Quantum Dot. Nano Letters, 2009, 9, 1989-1993.	4.5	79
43	Wide InP Nanowires with Wurtzite/Zincblende Superlattice Segments Are Type-II whereas Narrower Nanowires Become Type-I: An Atomistic Pseudopotential Calculation. Nano Letters, 2010, 10, 4055-4060.	4.5	76
44	Photocurrent generation in semiconducting and metallic carbon nanotubes. Nature Photonics, 2014, 8, 47-51.	15.6	75
45	Title is missing!. European Physical Journal D, 2002, 18, 197-210.	0.6	73
46	Spontaneous emission control of single quantum dots in bottom-up nanowire waveguides. Applied Physics Letters, 2012, 100, .	1.5	72
47	Quantum interference and manipulation of entanglement in silicon wire waveguide quantum circuits. New Journal of Physics, 2012, 14, 045003.	1.2	71
48	Superconducting single photon detectors with minimized polarization dependence. Applied Physics Letters, 2008, 93, .	1.5	70
49	Generation of degenerate, factorizable, pulsed squeezed light at telecom wavelengths. Optics Express, 2011, 19, 24434.	1.7	68
50	Reconfigurable photonics with on-chip single-photon detectors. Nature Communications, 2021, 12, 1408.	5.8	68
51	Gate controlled Aharonov-Bohm-type oscillations from single neutral excitons in quantum rings. Physical Review B, 2010, 82, .	1.1	64
52	Overcoming power broadening of the quantum dot emission in a pure wurtzite nanowire. Physical Review B, 2016, 93, .	1.1	63
53	Resonance Fluorescence of GaAs Quantum Dots with Near-Unity Photon Indistinguishability. Nano Letters, 2019, 19, 2404-2410.	4.5	63
54	Generation of correlated photon pairs in a chalcogenide As2S3 waveguide. Applied Physics Letters, 2011, 98, .	1.5	62

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55	Time-resolved studies of single semiconductor quantum dots. Physical Review B, 1999, 59, 5021-5025.	1.1	61
56	Improved light extraction from emitters in high refractive index materials using solid immersion lenses. Journal of Applied Physics, 2002, 92, 660-665.	1.1	60
57	Low gap superconducting single photon detectors for infrared sensitivity. Applied Physics Letters, 2011, 98, .	1.5	60
58	Quantum detector tomography of a time-multiplexed superconducting nanowire single-photon detector at telecom wavelengths. Optics Express, 2013, 21, 893.	1.7	58
59	Size dependence of Eu2+ fluorescence in ZnS:Eu2+ nanoparticles. Journal of Applied Physics, 2001, 89, 2671-2675.	1.1	57
60	Strain-Tunable Quantum Integrated Photonics. Nano Letters, 2018, 18, 7969-7976.	4.5	57
61	Bright nanoscale source of deterministic entangled photonÂpairs violating Bellâ€™s inequality. Scientific Reports, 2017, 7, 1700.	1.6	56
62	Position controlled nanowires for infrared single photon emission. Applied Physics Letters, 2010, 97, .	1.5	55
63	All-photonic quantum teleportation using on-demand solid-state quantum emitters. Science Advances, 2018, 4, eaau1255.	4.7	53
64	Efficient Single-Photon Detection with 7.7 ps Time Resolution for Photon-Correlation Measurements. ACS Photonics, 2020, 7, 1780-1787.	3.2	52
65	Fast and Efficient Photodetection in Nanoscale Quantum-Dot Junctions. Nano Letters, 2012, 12, 5740-5743.	4.5	51
66	Atomistic defects as single-photon emitters in atomically thin MoS2. Applied Physics Letters, 2020, 117, .	1.5	51
67	Visible single-photon generation from semiconductor quantum dots. New Journal of Physics, 2004, 6, 90-90.	1.2	49
68	Fiber-coupled single-photon detectors based on NbN superconducting nanostructures for practical quantum cryptography and photon-correlation studies. Applied Physics Letters, 2006, 88, 261113.	1.5	49
69	Engineering the Luminescence and Generation of Individual Defect Emitters in Atomically Thin MoS₂. ACS Photonics, 2021, 8, 669-677.	3.2	48
70	Electric Field Induced Removal of the Biexciton Binding Energy in a Single Quantum Dot. Nano Letters, 2011, 11, 645-650.	4.5	47
71	Single Electron Charging in Optically Active Nanowire Quantum Dots. Nano Letters, 2010, 10, 1817-1822.	4.5	46
72	Linewidth narrowing and Purcell enhancement in photonic crystal cavities on an Er-doped silicon nitride platform. Optics Express, 2010, 18, 2601.	1.7	45

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73	Controlling a Nanowire Quantum Dot Band Gap Using a Straining Dielectric Envelope. Nano Letters, 2012, 12, 6206-6211.	4.5	44
74	Design of broadband high-efficiency superconducting-nanowire single photon detectors. Superconductor Science and Technology, 2016, 29, 065016.	1.8	43
75	Passively stable distribution of polarisation entanglement over 192 km of deployed optical fibre. Npj Quantum Information, 2020, 6, .	2.8	43
76	Controlling the exciton energy of a nanowire quantum dot by strain fields. Applied Physics Letters, 2016, 108, .	1.5	42
77	Exciton Fine Structure and Lattice Dynamics in InP/ZnSe Core/Shell Quantum Dots. ACS Photonics, 2018, 5, 3353-3362.	3.2	42
78	Three-photon cascade from single self-assembled InP quantum dots. Physical Review B, 2004, 69, .	1.1	41
79	Impedance model for the polarization-dependent optical absorption of superconducting single-photon detectors. EPJ Applied Physics, 2009, 47, 10701.	0.3	41
80	Single quantum dot nanowire photodetectors. Applied Physics Letters, 2010, 97, .	1.5	41
81	Quantum optics with single quantum dot devices. New Journal of Physics, 2004, 6, 96-96.	1.2	38
82	Progress on large-scale superconducting nanowire single-photon detectors. Applied Physics Letters, 2021, 118, .	1.5	38
83	Photon Cascade from a Single Crystal Phase Nanowire Quantum Dot. Nano Letters, 2016, 16, 1081-1085.	4.5	37
84	Nanowire Quantum Dots Tuned to Atomic Resonances. Nano Letters, 2018, 18, 7217-7221.	4.5	37
85	Subwavelength Focusing of Light with Orbital Angular Momentum. Nano Letters, 2014, 14, 4598-4601.	4.5	36
86	On-Demand Generation of Entangled Photon Pairs in the Telecom C-Band with InAs Quantum Dots. ACS Photonics, 2021, 8, 2337-2344.	3.2	36
87	Optimizing the stoichiometry of ultrathin NbTiN films for high-performance superconducting nanowire single-photon detectors. Optics Express, 2019, 27, 26579.	1.7	36
88	Measurement of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>g</mml:mi></mml:math>-factor tensor in a quantum dot and disentanglement of exciton spins. Physical Review B, 2011, 84, .	1.1	35
89	Probing Optical Transitions in Individual Carbon Nanotubes Using Polarized Photocurrent Spectroscopy. Nano Letters, 2012, 12, 5649-5653.	4.5	35
90	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

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91	Orientationâ€Dependent Opticalâ€Polarization Properties of Single Quantum Dots in Nanowires. Small, 2009, 5, 2134-2138.	5.2	33
92	Resonance Fluorescence from Waveguide-Coupled, Strain-Localized, Two-Dimensional Quantum Emitters. ACS Photonics, 2021, 8, 1069-1076.	3.2	33
93	Single-photon Fourier spectroscopy of excitons and biexcitons in single quantum dots. Physical Review B, 2004, 69, .	1.1	32
94	Rydberg excitons in Cu2O microcrystals grown on a silicon platform. Communications Materials, 2020, 1, .	2.9	31
95	Quantum teleportation with imperfect quantum dots. Npj Quantum Information, 2021, 7, .	2.8	30
96	A miniaturized 4 K platform for superconducting infrared photon counting detectors. Superconductor Science and Technology, 2017, 30, 11LT01.	1.8	29
97	Deterministic Integration of hBN Emitter in Silicon Nitride Photonic Waveguide. Advanced Quantum Technologies, 2021, 4, 2100032.	1.8	28
98	Fractal superconducting nanowire single-photon detectors with reduced polarization sensitivity. Optics Letters, 2018, 43, 5017.	1.7	28
99	Correlated photon-pair generation in a periodically poled MgO doped stoichiometric lithium tantalate reverse proton exchanged waveguide. Applied Physics Letters, 2011, 99, .	1.5	27
100	Single pairs of time-bin-entangled photons. Physical Review A, 2015, 92, .	1.0	26
101	Dephasing Free Photon Entanglement with a Quantum Dot. ACS Photonics, 2019, 6, 1656-1663.	3.2	25
102	NbTiN thin films for superconducting photon detectors on photonic and two-dimensional materials. Applied Physics Letters, 2020, 116, .	1.5	25
103	Integration of Colloidal PbS/CdS Quantum Dots with Plasmonic Antennas and Superconducting Detectors on a Silicon Nitride Photonic Platform. Nano Letters, 2019, 19, 5452-5458.	4.5	24
104	Controlled integration of selected detectors and emitters in photonic integrated circuits. Optics Express, 2019, 27, 3710.	1.7	23
105	Origin of Antibunching in Resonance Fluorescence. Physical Review Letters, 2020, 125, 170402.	2.9	22
106	Strain-Controlled Quantum Dot Fine Structure for Entangled Photon Generation atâ€‰1550 nm. Nano Letters, 2021, 21, 10501-10506.	4.5	22
107	Optics with single nanowires. Comptes Rendus Physique, 2008, 9, 804-815.	0.3	21
108	A stable wavelength-tunable triggered source of single photons and cascaded photon pairs at the telecom C-band. Applied Physics Letters, 2018, 112, 173102.	1.5	21

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109	Superconducting nanowire single photon detectors operating at temperature from 4 to 7 K. Optics Express, 2019, 27, 24601.	1.7	21
110	Efficient mid-infrared single-photon detection using superconducting NbTiN nanowires with high time resolution in a Gifford-McMahon cryocooler. Photonics Research, 2022, 10, 1063.	3.4	21
111	A high efficiency superconducting nanowire single electron detector. Applied Physics Letters, 2010, 97, .	1.5	20
112	Tuning single GaAs quantum dots in resonance with a rubidium vapor. Applied Physics Letters, 2010, 97, .	1.5	19
113	Giant Rydberg excitons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mn>2</mml:mn></mm mathvariant="normal">O</mml:mi></mml:mrow></mml:math> probed by photoluminescence excitation spectroscopy. Physical Review B, 2021, 104, .	1.1	19
114	Size reduction of self assembled quantum dots by annealing. Applied Surface Science, 1998, 134, 47-52.	3.1	18
115	Fabrication and time-resolved studies of visible microdisk lasers. Journal of Applied Physics, 2003, 93, 2307-2309.	1.1	17
116	Multimode-fiber-coupled superconducting nanowire single-photon detectors with high detection efficiency and time resolution. Applied Optics, 2019, 58, 9803.	0.9	17
117	HEMT-Based Readout Technique for Dark- and Photon-Count Studies in NbN Superconducting Single-Photon Detectors. IEEE Transactions on Applied Superconductivity, 2009, 19, 346-349.	1.1	16
118	Design of polarization-insensitive superconducting single photon detectors with high-index dielectrics. Superconductor Science and Technology, 2017, 30, 035005.	1.8	16
119	Fractal superconducting nanowire avalanche photodetector at 1550â€‰â€‰nm with 60% system detection efficiency and 1.05 polarization sensitivity. Optics Letters, 2020, 45, 471.	1.7	16
120	Imaging the formation of a p-n junction in a suspended carbon nanotube with scanning photocurrent microscopy. Journal of Applied Physics, 2011, 110, .	1.1	15
121	Far field emission profile of pure wurtzite InP nanowires. Applied Physics Letters, 2014, 105, 191113.	1.5	15
122	Fractal Superconducting Nanowires Detect Infrared Single Photons with 84% System Detection Efficiency, 1.02 Polarization Sensitivity, and 20.8 ps Timing Resolution. ACS Photonics, 2022, 9, 1547-1553.	3.2	15
123	Random telegraph noise in the photoluminescence of individualGaxIn1âˆ'xAsquantum dots in GaAs. Physical Review B, 2001, 64, .	1.1	14
124	Growth of single quantum dots on preprocessed structures: Single photon emitters on a tip. Applied Physics Letters, 2005, 86, 091911.	1.5	14
125	Two-photon interference from two blinking quantum emitters. Physical Review B, 2017, 96, .	1.1	14
126	Polarization-insensitive fiber-coupled superconducting-nanowire single photon detector using a high-index dielectric capping layer. Optics Express, 2018, 26, 17697.	1.7	14

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127	Fibre-coupled, single photon detector based on NbN superconducting nanostructures for quantum communications. Journal of Modern Optics, 2007, 54, 315-326.	0.6	13
128	Initialization of a spin qubit in a site-controlled nanowire quantum dot. New Journal of Physics, 2016, 18, 053024.	1.2	13
129	Full-Stokes polarimetric measurements and imaging using a fractal superconducting nanowire single-photon detector. Optica, 2022, 9, 346.	4.8	13
130	Telecom-wavelength InAs QDs with low fine structure splitting grown by droplet epitaxy on GaAs(111)A vicinal substrates. Applied Physics Letters, 2021, 118, .	1.5	12
131	Exciton coherence in clean single InP/InAsP/InP nanowire quantum dots emitting in infra-red measured by Fourier spectroscopy. Journal of Physics: Conference Series, 2009, 193, 012132.	0.3	11
132	High-quality NbN nanofilms on a GaN/AlN heterostructure. AIP Advances, 2014, 4, 107123.	0.6	11
133	High-Yield Growth and Characterization of âŸ¨100âŸ© InP pâ€“n Diode Nanowires. Nano Letters, 2016, 16, 3071-3077.	4.5	11
134	Reflection second-harmonic microscopy of individual semiconductor microstructures. Journal of Applied Physics, 2001, 90, 6357-6362.	1.1	10
135	Luminescence polarization of ordered GaInP/InP islands. Applied Physics Letters, 2003, 82, 627-629.	1.5	10
136	Sharp emission from single InAs quantum dots grown on vicinal GaAs surfaces. Applied Physics Letters, 2009, 94, 163114.	1.5	10
137	Surround-gated vertical nanowire quantum dots. Applied Physics Letters, 2010, 96, 233112.	1.5	10
138	Superconducting detector dynamics studied by quantum pump-probe spectroscopy. Applied Physics Letters, 2012, 101, 112603.	1.5	10
139	Improvement of the critical temperature of NbTiN films on III-nitride substrates. Superconductor Science and Technology, 2019, 32, 035008.	1.8	10
140	Optical polarization properties of a nanowire quantum dot probed along perpendicular orientations. Applied Physics Letters, 2012, 101, .	1.5	9
141	Ultrafast coherent manipulation of trions in site-controlled nanowire quantum dots. Optica, 2016, 3, 1430.	4.8	9
142	Universal fine-structure eraser for quantum dots. Optics Express, 2018, 26, 24487.	1.7	9
143	Growth of vertical and defect free InP nanowires on SrTiO3(001) substrate and comparison with growth on silicon. Journal of Crystal Growth, 2012, 343, 101-104.	0.7	8
144	Single Neutral Excitons Confined in AsBr₃ <I>In Situ</I> Etched InGaAs Quantum Rings. Journal of Nanoelectronics and Optoelectronics, 2011, 6, 51-57.	0.1	8

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145	Fiber-coupled NbN superconducting single-photon detectors for quantum correlation measurements. , 2007, , .		7
146	Longitudinal and transverse exciton-spin relaxation in a single InAsP quantum dot embedded inside a standing InP nanowire using photoluminescence spectroscopy. Physical Review B, 2012, 85, .	1.1	7
147	Amplitude distributions of dark counts and photon counts in NbN superconducting single-photon detectors integrated with the HEMT readout. Physica C: Superconductivity and Its Applications, 2017, 532, 33-39.	0.6	7
148	Current Crowding in Nanoscale Superconductors within the Ginzburg-Landau Model. Physical Review Applied, 2022, 17, .	1.5	7
149	Single carbon nanotube photovoltaic device. Journal of Applied Physics, 2013, 114, .	1.1	6
150	GaAs Quantum Dot in a Parabolic Microcavity Tuned to ⁸⁷Rb D₁. ACS Photonics, 2020, 7, 29-35.	3.2	6
151	Conduction Band Spin Splitting in InxGa1-xAs/GaAs Quantum Wells. Japanese Journal of Applied Physics, 1998, 37, 4272-4276.	0.8	5
152	A compact 4 K cooling system for superconducting nanowire single photon detectors. IOP Conference Series: Materials Science and Engineering, 2019, 502, 012193.	0.3	4
153	Temporal array with superconducting nanowire single-photon detectors for photon-number resolution. Physical Review A, 2020, 102, .	1.0	4
154	Efficient and versatile toolbox for analysis of time-tagged measurements. Journal of Instrumentation, 2021, 16, T08016.	0.5	4
155	Materials, devices, and systems for high-speed single-photon counting. MRS Bulletin, 2022, 47, 494-501.	1.7	4
156	Indium enrichment in Ga1âˆ’xInxP self-assembled quantum dots. Journal of Applied Physics, 2000, 88, 6378-6381.	1.1	3
157	A spooky light-emitting diode. Nature Photonics, 2010, 4, 508-509.	15.6	3
158	Bright single-photon sources based on self-aligned quantum dots in tapered nanowire waveguides. , 2013, , .		3
159	Single photon emission and detection at the nanoscale utilizing semiconductor nanowires. , 2010, , .		2
160	Quantum interference in silicon waveguide circuits. , 2011, , .		2
161	Depth imaging at kilometer range using time-correlated single-photon counting at wavelengths of 850 nm and 1560 nm. , 2012, , .		2
162	Dispersion engineering of superconducting waveguides for multi-pixel integration of single-photon detectors. APL Photonics, 2020, 5, 111301.	3.0	2

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163	X-Ray Induced Secondary Particle Counting With Thin NbTiN Nanowire Superconducting Detector. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.1	2
164	Single-photon detection with near unity efficiency, ultrahigh detection-rates, and ultra-high time resolution. , 2017, , .		2
165	Reconfigurable frequency coding of triggered single photons in the telecom Câ€"band. Optics Express, 2019, 27, 14400.	1.7	2
166	Excited State Dynamics in In0.5Al0.04Ga0.46As/Al0.08Ga0.92As Self-Assembled Quantum Dots. Physica Status Solidi (B): Basic Research, 2001, 224, 447-451.	0.7	1
167	Fiber-coupled quantum-communications receiver based on two NbN superconducting single-photon detectors. , 2005, , .		1
168	Quantum optics with single nanowire quantum dots. , 2010, , .		1
169	Nanowires for quantum optics. , 2010, , .		1
170	Single semiconductor quantum dots in nanowires: growth, optics, and devices. , 2012, , 21-40.		1
171	Excitons Confined in Single Semiconductor Quantum Rings: Observation and Manipulation of Aharonov-Bohm-Type Oscillations. Nanoscience and Technology, 2014, , 299-328.	1.5	1
172	Hybrid quantum photonic integrated circuits. , 2018, , .		1
173	On-chip integration of reconfigurable quantum photonics with superconducting photodetectors. , 2021, , .		1
174	Single photon sources based on InP and CdSe QDs. , 0, , .		0
175	Generation of visible single photons on demand using InP and CdSe quantum dots. , 2003, , .		0
176	Monolithic generation and manipulation of nondegenerate photon pairs within a silicon-on-insulator quantum photonic circuit. , 2013, , .		0
177	Photon pair generation and manipulation in an integrated silicon chip. , 2013, , .		0
178	High absorption efficiency and polarization-insensitivity in superconducting-nanowire single-photon detectors. Proceedings of SPIE, 2017, , .	0.8	0
179	RF-amplifier-free superconducting nanowire single-photon detector system. , 2018, , .		0
180	Advanced Superconducting Nanowire Single Photon Detectors for Photonic Quantum Technologies. Proceedings (mdpi), 2018, 2, .	0.2	0

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181	Superconducting Nanowire Devices for Light Detection at the Single-Photon Level. Proceedings (mdpi), 2020, 56, .	0.2	0
182	Fractal Superconducting Nanowire Avalanche Photodetectors with 84% System Efficiency at 1600 nm, 1.02 Polarization Sensitivity, and 29 ps Timing Resolution. , 2021, , .		0
183	Back Cover: Deterministic Integration of hBN Emitter in Silicon Nitride Photonic Waveguide (Adv.) Tj ETQq1 1 0.784314 rgBT /Overlock	1.8	0
184	Slowing Down Single Photons from a Single Quantum Dot. , 2012, , .		0
185	Optical Pumping of Individual Spins in Self-Assembled and Site-Controlled Quantum Dots. , 2015, , .		0
186	Hybrid Quantum Photonics. , 2017, , .		0
187	Generating, manipulating and detecting quantum states of light at the nanoscale. , 2018, , .		0
188	Fractal superconducting nanowire single-photon detectors with low polarization sensitivity. , 2018, , .		0
189	Superconducting Nanowire Single Photon Detector with High Efficiency and Time Resolution for Multimode Fiber Coupling. , 2019, , .		0
190	All-photonic quantum teleportation and entanglement swapping using on-demand solid-state quantum emitters. , 2019, , .		0
191	Scalable quantum optics with nanowires. , 2019, , .		0
192	Superconducting nanowire single-photon detectors at the infrared spectrum range: detection efficiency and timing jitter. , 2019, , .		0
193	Fractal superconducting nanowire avalanche photodetector with 60% system efficiency and 1.05 polarization sensitivity. , 2020, , .		0
194	Plasmonic Enhancement and Spectroscopy of PbS/CdS QD Emitters on a Silicon Nitride Photonic Platform. , 0, , .		0