

Val Zwiller

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

167
papers

7,887
citations

48
h-index

84
g-index

198
ext. papers

9,311
ext. citations

6.5
avg, IF

5.91
L-index

#	Paper	IF	Citations
167	Full-Stokes polarimetric measurements and imaging using a fractal superconducting nanowire single-photon detector. <i>Optica</i> , 2022 , 9, 346	8.6	0
166	Reconfigurable photonics with on-chip single-photon detectors. <i>Nature Communications</i> , 2021 , 12, 1408	17.4	18
165	Detecting telecom single photons with 99.52±0.5% system detection efficiency and high time resolution. <i>APL Photonics</i> , 2021 , 6, 036114	5.2	21
164	Telecom-wavelength InAs QDs with low fine structure splitting grown by droplet epitaxy on GaAs(111)A vicinal substrates. <i>Applied Physics Letters</i> , 2021 , 118, 133102	3.4	1
163	Resonance Fluorescence from Waveguide-Coupled, Strain-Localized, Two-Dimensional Quantum Emitters. <i>ACS Photonics</i> , 2021 , 8, 1069-1076	6.3	9
162	Superconducting nanowire single-photon detectors: A perspective on evolution, state-of-the-art, future developments, and applications. <i>Applied Physics Letters</i> , 2021 , 118, 190502	3.4	26
161	Deterministic Integration of hBN Emitter in Silicon Nitride Photonic Waveguide. <i>Advanced Quantum Technologies</i> , 2021 , 4, 2100032	4.3	8
160	X-Ray Induced Secondary Particle Counting With Thin NbTiN Nanowire Superconducting Detector. <i>IEEE Transactions on Applied Superconductivity</i> , 2021 , 31, 1-5	1.8	1
159	Quantum teleportation with imperfect quantum dots. <i>Npj Quantum Information</i> , 2021 , 7,	8.6	11
158	Progress on large-scale superconducting nanowire single-photon detectors. <i>Applied Physics Letters</i> , 2021 , 118, 100501	3.4	13
157	On-Demand Generation of Entangled Photon Pairs in the Telecom C-Band with InAs Quantum Dots. <i>ACS Photonics</i> , 2021 , 8, 2337-2344	6.3	6
156	Efficient and versatile toolbox for analysis of time-tagged measurements. <i>Journal of Instrumentation</i> , 2021 , 16, T08016	1	3
155	Engineering the Luminescence and Generation of Individual Defect Emitters in Atomically Thin MoS ₂ . <i>ACS Photonics</i> , 2021 , 8, 669-677	6.3	20
154	Strain-Controlled Quantum Dot Fine Structure for Entangled Photon Generation at 1550 nm.. <i>Nano Letters</i> , 2021 , 21, 10501-10506	11.5	0
153	Dispersion engineering of superconducting waveguides for multi-pixel integration of single-photon detectors. <i>APL Photonics</i> , 2020 , 5, 111301	5.2	1
152	Efficient Single-Photon Detection with 7.7 ps Time Resolution for Photon-Correlation Measurements. <i>ACS Photonics</i> , 2020 , 7, 1780-1787	6.3	30
151	Passively stable distribution of polarisation entanglement over 192 km of deployed optical fibre. <i>Npj Quantum Information</i> , 2020 , 6,	8.6	20

150	NbTiN thin films for superconducting photon detectors on photonic and two-dimensional materials. <i>Applied Physics Letters</i> , 2020 , 116, 171101	3.4	10
149	Hybrid integrated quantum photonic circuits. <i>Nature Photonics</i> , 2020 , 14,	33.9	158
148	Rydberg excitons in Cu2O microcrystals grown on a silicon platform. <i>Communications Materials</i> , 2020 , 1,	6	9
147	Fractal superconducting nanowire avalanche photodetector at 1550 nm with 60% system detection efficiency and 105 polarization sensitivity. <i>Optics Letters</i> , 2020 , 45, 471	3	6
146	GaAs Quantum Dot in a Parabolic Microcavity Tuned to Rb D. <i>ACS Photonics</i> , 2020 , 7, 29-35	6.3	5
145	Origin of Antibunching in Resonance Fluorescence. <i>Physical Review Letters</i> , 2020 , 125, 170402	7.4	2
144	Temporal array with superconducting nanowire single-photon detectors for photon-number resolution. <i>Physical Review A</i> , 2020 , 102,	2.6	4
143	Crux of Using the Cascaded Emission of a Three-Level Quantum Ladder System to Generate Indistinguishable Photons. <i>Physical Review Letters</i> , 2020 , 125, 233605	7.4	15
142	Atomistic defects as single-photon emitters in atomically thin MoS2. <i>Applied Physics Letters</i> , 2020 , 117, 070501	3.4	27
141	Superconducting Nanowire Devices for Light Detection at the Single-Photon Level. <i>Proceedings (mdpi)</i> , 2020 , 56, 4	0.3	
140	Dephasing Free Photon Entanglement with a Quantum Dot. <i>ACS Photonics</i> , 2019 , 6, 1656-1663	6.3	14
139	Entanglement distribution over a 96-km-long submarine optical fiber. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 6684-6688	11.5	45
138	Resonance Fluorescence of GaAs Quantum Dots with Near-Unity Photon Indistinguishability. <i>Nano Letters</i> , 2019 , 19, 2404-2410	11.5	36
137	Integration of Colloidal PbS/CdS Quantum Dots with Plasmonic Antennas and Superconducting Detectors on a Silicon Nitride Photonic Platform. <i>Nano Letters</i> , 2019 , 19, 5452-5458	11.5	14
136	Entanglement Swapping with Photons Generated on Demand by a Quantum Dot. <i>Physical Review Letters</i> , 2019 , 123, 160501	7.4	48
135	Multimode-fiber-coupled superconducting nanowire single-photon detectors with high detection efficiency and time resolution. <i>Applied Optics</i> , 2019 , 58, 9803-9807	1.7	12
134	Controlled integration of selected detectors and emitters in photonic integrated circuits. <i>Optics Express</i> , 2019 , 27, 3710-3716	3.3	19
133	Superconducting nanowire single photon detectors operating at temperature from 4 to 7 K. <i>Optics Express</i> , 2019 , 27, 24601-24609	3.3	11

132	Optimizing the stoichiometry of ultrathin NbTiN films for high-performance superconducting nanowire single-photon detectors. <i>Optics Express</i> , 2019 , 27, 26579-26587	3.3	19
131	Reconfigurable frequency coding of triggered single photons in the telecom C-band. <i>Optics Express</i> , 2019 , 27, 14400-14406	3.3	0
130	A compact 4 K cooling system for superconducting nanowire single photon detectors. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019 , 502, 012193	0.4	2
129	Improvement of the critical temperature of NbTiN films on III-nitride substrates. <i>Superconductor Science and Technology</i> , 2019 , 32, 035008	3.1	4
128	On-demand generation of background-free single photons from a solid-state source. <i>Applied Physics Letters</i> , 2018 , 112, 093106	3.4	132
127	A stable wavelength-tunable triggered source of single photons and cascaded photon pairs at the telecom C-band. <i>Applied Physics Letters</i> , 2018 , 112, 173102	3.4	14
126	Bright Single InAsP Quantum Dots at Telecom Wavelengths in Position-Controlled InP Nanowires: The Role of the Photonic Waveguide. <i>Nano Letters</i> , 2018 , 18, 3047-3052	11.5	57
125	Polarization-insensitive fiber-coupled superconducting-nanowire single photon detector using a high-index dielectric capping layer. <i>Optics Express</i> , 2018 , 26, 17697-17704	3.3	12
124	Exciton Fine Structure and Lattice Dynamics in InP/ZnSe Core/Shell Quantum Dots. <i>ACS Photonics</i> , 2018 , 5, 3353-3362	6.3	24
123	Universal fine-structure eraser for quantum dots. <i>Optics Express</i> , 2018 , 26, 24487-24496	3.3	4
122	Fractal superconducting nanowire single-photon detectors with reduced polarization sensitivity. <i>Optics Letters</i> , 2018 , 43, 5017-5020	3	16
121	Advanced Superconducting Nanowire Single Photon Detectors for Photonic Quantum Technologies. <i>Proceedings (mdpi)</i> , 2018 , 2, 1096	0.3	
120	Strain-Tunable Quantum Integrated Photonics. <i>Nano Letters</i> , 2018 , 18, 7969-7976	11.5	43
119	All-photonic quantum teleportation using on-demand solid-state quantum emitters. <i>Science Advances</i> , 2018 , 4, eaau1255	14.3	37
118	Nanowire Quantum Dots Tuned to Atomic Resonances. <i>Nano Letters</i> , 2018 , 18, 7217-7221	11.5	21
117	Phonon-Assisted Two-Photon Interference from Remote Quantum Emitters. <i>Nano Letters</i> , 2017 , 17, 4090-4095	11.5	57
116	Design of polarization-insensitive superconducting single photon detectors with high-index dielectrics. <i>Superconductor Science and Technology</i> , 2017 , 30, 035005	3.1	11
115	Amplitude distributions of dark counts and photon counts in NbN superconducting single-photon detectors integrated with the HEMT readout. <i>Physica C: Superconductivity and Its Applications</i> , 2017 , 532, 33-39	1.3	6

114	Two-photon interference from two blinking quantum emitters. <i>Physical Review B</i> , 2017 , 96,	3.3	8
113	A miniaturized 4 K platform for superconducting infrared photon counting detectors. <i>Superconductor Science and Technology</i> , 2017 , 30, 11LT01	3.1	21
112	On-chip single photon filtering and multiplexing in hybrid quantum photonic circuits. <i>Nature Communications</i> , 2017 , 8, 379	17.4	91
111	Bright nanoscale source of deterministic entangled photon pairs violating Bell's inequality. <i>Scientific Reports</i> , 2017 , 7, 1700	4.9	37
110	Single-photon detectors combining high efficiency, high detection rates, and ultra-high timing resolution. <i>APL Photonics</i> , 2017 , 2, 111301	5.2	94
109	Single-photon detection with near unity efficiency, ultrahigh detection-rates, and ultra-high time resolution 2017 ,		2
108	Overcoming power broadening of the quantum dot emission in a pure wurtzite nanowire. <i>Physical Review B</i> , 2016 , 93,	3.3	46
107	Thermo-Optic Characterization of Silicon Nitride Resonators for Cryogenic Photonic Circuits. <i>IEEE Photonics Journal</i> , 2016 , 8, 1-9	1.8	46
106	Initialization of a spin qubit in a site-controlled nanowire quantum dot. <i>New Journal of Physics</i> , 2016 , 18, 053024	2.9	12
105	Photon Cascade from a Single Crystal Phase Nanowire Quantum Dot. <i>Nano Letters</i> , 2016 , 16, 1081-5	11.5	28
104	Deterministic Integration of Single Photon Sources in Silicon Based Photonic Circuits. <i>Nano Letters</i> , 2016 , 16, 2289-94	11.5	106
103	Ultrafast coherent manipulation of trions in site-controlled nanowire quantum dots. <i>Optica</i> , 2016 , 3, 1430	8.6	9
102	Design of broadband high-efficiency superconducting-nanowire single photon detectors. <i>Superconductor Science and Technology</i> , 2016 , 29, 065016	3.1	29
101	Controlling the exciton energy of a nanowire quantum dot by strain fields. <i>Applied Physics Letters</i> , 2016 , 108, 182103	3.4	36
100	High-Yield Growth and Characterization of <100> InP p-n Diode Nanowires. <i>Nano Letters</i> , 2016 , 16, 3071-5	11.5	11
99	Single pairs of time-bin-entangled photons. <i>Physical Review A</i> , 2015 , 92,	2.6	17
98	On-chip quantum interference between silicon photon-pair sources. <i>Nature Photonics</i> , 2014 , 8, 104-108	33.9	285
97	A light-hole exciton in a quantum dot. <i>Nature Physics</i> , 2014 , 10, 46-51	16.2	94

96	Photocurrent generation in semiconducting and metallic carbon nanotubes. <i>Nature Photonics</i> , 2014 , 8, 47-51	33.9	65
95	Far field emission profile of pure wurtzite InP nanowires. <i>Applied Physics Letters</i> , 2014 , 105, 191113	3.4	14
94	Observation of strongly entangled photon pairs from a nanowire quantum dot. <i>Nature Communications</i> , 2014 , 5, 5298	17.4	150
93	Subwavelength focusing of light with orbital angular momentum. <i>Nano Letters</i> , 2014 , 14, 4598-601	11.5	27
92	Nanowire waveguides launching single photons in a Gaussian mode for ideal fiber coupling. <i>Nano Letters</i> , 2014 , 14, 4102-6	11.5	92
91	High-quality NbN nanofilms on a GaN/AlN heterostructure. <i>AIP Advances</i> , 2014 , 4, 107123	1.5	7
90	Excitons Confined in Single Semiconductor Quantum Rings: Observation and Manipulation of Aharonov-Bohm-Type Oscillations. <i>Nanoscience and Technology</i> , 2014 , 299-328	0.6	1
89	Gallium arsenide (GaAs) quantum photonic waveguide circuits. <i>Optics Communications</i> , 2014 , 327, 49-55 2		69
88	Quantum interference in plasmonic circuits. <i>Nature Nanotechnology</i> , 2013 , 8, 719-22	28.7	133
87	Large and tunable photothermoelectric effect in single-layer MoS ₂ . <i>Nano Letters</i> , 2013 , 13, 358-63	11.5	480
86	Single carbon nanotube photovoltaic device. <i>Journal of Applied Physics</i> , 2013 , 114, 164320	2.5	6
85	Quantum detector tomography of a time-multiplexed superconducting nanowire single-photon detector at telecom wavelengths. <i>Optics Express</i> , 2013 , 21, 893-902	3.3	46
84	Kilometer-range, high resolution depth imaging via 1560 nm wavelength single-photon detection. <i>Optics Express</i> , 2013 , 21, 8904-15	3.3	174
83	Photon pair generation in a silicon micro-ring resonator with reverse bias enhancement. <i>Optics Express</i> , 2013 , 21, 27826-34	3.3	104
82	Singlet oxygen luminescence detection with a fiber-coupled superconducting nanowire single-photon detector. <i>Optics Express</i> , 2013 , 21, 5005-13	3.3	97
81	Bright single-photon sources based on self-aligned quantum dots in tapered nanowire waveguides 2013 ,		2
80	Probing optical transitions in individual carbon nanotubes using polarized photocurrent spectroscopy. <i>Nano Letters</i> , 2012 , 12, 5649-53	11.5	32
79	Ultraclean emission from InAsP quantum dots in defect-free wurtzite InP nanowires. <i>Nano Letters</i> , 2012 , 12, 5919-23	11.5	116

78	Growth and optical properties of axial hybrid III-V/silicon nanowires. <i>Nature Communications</i> , 2012 , 3, 1266	17.4	92
77	Growth of vertical and defect free InP nanowires on SrTiO ₃ (001) substrate and comparison with growth on silicon. <i>Journal of Crystal Growth</i> , 2012 , 343, 101-104	1.6	7
76	Depth imaging at kilometer range using time-correlated single-photon counting at wavelengths of 850 nm and 1560 nm 2012 ,		1
75	Bright single-photon sources in bottom-up tailored nanowires. <i>Nature Communications</i> , 2012 , 3, 737	17.4	317
74	Quantum interference and manipulation of entanglement in silicon wire waveguide quantum circuits. <i>New Journal of Physics</i> , 2012 , 14, 045003	2.9	58
73	Fast path and polarization manipulation of telecom wavelength single photons in lithium niobate waveguide devices. <i>Physical Review Letters</i> , 2012 , 108, 053601	7.4	75
72	Controlling a nanowire quantum dot band gap using a straining dielectric envelope. <i>Nano Letters</i> , 2012 , 12, 6206-11	11.5	39
71	Fast and efficient photodetection in nanoscale quantum-dot junctions. <i>Nano Letters</i> , 2012 , 12, 5740-3	11.5	47
70	Spontaneous emission control of single quantum dots in bottom-up nanowire waveguides. <i>Applied Physics Letters</i> , 2012 , 100, 121106	3.4	64
69	Avalanche amplification of a single exciton in a semiconductor nanowire. <i>Nature Photonics</i> , 2012 , 6, 455-458	3.9	87
68	Longitudinal and transverse exciton-spin relaxation in a single InAsP quantum dot embedded inside a standing InP nanowire using photoluminescence spectroscopy. <i>Physical Review B</i> , 2012 , 85,	3.3	5
67	Optical polarization properties of a nanowire quantum dot probed along perpendicular orientations. <i>Applied Physics Letters</i> , 2012 , 101, 111112	3.4	8
66	Superconducting detector dynamics studied by quantum pump-probe spectroscopy. <i>Applied Physics Letters</i> , 2012 , 101, 112603	3.4	9
65	Low gap superconducting single photon detectors for infrared sensitivity. <i>Applied Physics Letters</i> , 2011 , 98, 251102	3.4	45
64	Generation of degenerate, factorizable, pulsed squeezed light at telecom wavelengths. <i>Optics Express</i> , 2011 , 19, 24434-47	3.3	55
63	Hybrid semiconductor-atomic interface: slowing down single photons from a quantum dot. <i>Nature Photonics</i> , 2011 , 5, 230-233	33.9	97
62	Quantum interference in silicon waveguide circuits 2011 ,		2
61	Electric field induced removal of the biexciton binding energy in a single quantum dot. <i>Nano Letters</i> , 2011 , 11, 645-50	11.5	46

60	Correlated photon-pair generation in a periodically poled MgO doped stoichiometric lithium tantalate reverse proton exchanged waveguide. <i>Applied Physics Letters</i> , 2011 , 99, 081110	3.4	22
59	Measurement of the g-factor tensor in a quantum dot and disentanglement of exciton spins. <i>Physical Review B</i> , 2011 , 84,	3.3	30
58	Imaging the formation of a p-n junction in a suspended carbon nanotube with scanning photocurrent microscopy. <i>Journal of Applied Physics</i> , 2011 , 110, 074308	2.5	14
57	Generation of correlated photon pairs in a chalcogenide As ₂ S ₃ waveguide. <i>Applied Physics Letters</i> , 2011 , 98, 051101	3.4	44
56	Single Neutral Excitons Confined in AsBr ₃ In Situ Etched InGaAs Quantum Rings. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2011 , 6, 51-57	1.3	8
55	Surround-gated vertical nanowire quantum dots. <i>Applied Physics Letters</i> , 2010 , 96, 233112	3.4	9
54	Tuning single GaAs quantum dots in resonance with a rubidium vapor. <i>Applied Physics Letters</i> , 2010 , 97, 082103	3.4	15
53	Position controlled nanowires for infrared single photon emission. <i>Applied Physics Letters</i> , 2010 , 97, 171106	3.4	47
52	Enhanced telecom wavelength single-photon detection with NbTiN superconducting nanowires on oxidized silicon. <i>Applied Physics Letters</i> , 2010 , 96, 221109	3.4	87
51	Crystal phase quantum dots. <i>Nano Letters</i> , 2010 , 10, 1198-201	11.5	207
50	Wide InP nanowires with wurtzite/zincblende superlattice segments are type-II whereas narrower nanowires become type-I: an atomistic pseudopotential calculation. <i>Nano Letters</i> , 2010 , 10, 4055-60	11.5	68
49	Linewidth narrowing and Purcell enhancement in photonic crystal cavities on an Er-doped silicon nitride platform. <i>Optics Express</i> , 2010 , 18, 2601-12	3.3	39
48	Tuning the exciton binding energies in single self-assembled InGaAs/GaAs quantum dots by piezoelectric-induced biaxial stress. <i>Physical Review Letters</i> , 2010 , 104, 067405	7.4	150
47	Single quantum dot nanowire photodetectors. <i>Applied Physics Letters</i> , 2010 , 97, 113108	3.4	36
46	Single electron charging in optically active nanowire quantum dots. <i>Nano Letters</i> , 2010 , 10, 1817-22	11.5	44
45	Gate controlled Aharonov-Bohm-type oscillations from single neutral excitons in quantum rings. <i>Physical Review B</i> , 2010 , 82,	3.3	61
44	A high efficiency superconducting nanowire single electron detector. <i>Applied Physics Letters</i> , 2010 , 97, 183106	3.4	16
43	Nanowires for quantum optics 2010 ,		1

42	Quantum optics with single nanowire quantum dots 2010 ,		1
41	Orientation-dependent optical-polarization properties of single quantum dots in nanowires. <i>Small</i> , 2009 , 5, 2134-8	11	30
40	Selective excitation and detection of spin states in a single nanowire quantum dot. <i>Nano Letters</i> , 2009 , 9, 1989-93	11.5	73
39	HEMT-Based Readout Technique for Dark- and Photon-Count Studies in NbN Superconducting Single-Photon Detectors. <i>IEEE Transactions on Applied Superconductivity</i> , 2009 , 19, 346-349	1.8	14
38	Impedance model for the polarization-dependent optical absorption of superconducting single-photon detectors. <i>EPJ Applied Physics</i> , 2009 , 47, 10701	1.1	31
37	Sharp emission from single InAs quantum dots grown on vicinal GaAs surfaces. <i>Applied Physics Letters</i> , 2009 , 94, 163114	3.4	9
36	Exciton coherence in clean single InP/InAsP/InP nanowire quantum dots emitting in infra-red measured by Fourier spectroscopy. <i>Journal of Physics: Conference Series</i> , 2009 , 193, 012132	0.3	9
35	Superconducting single photon detectors with minimized polarization dependence. <i>Applied Physics Letters</i> , 2008 , 93, 161102	3.4	55
34	Low noise superconducting single photon detectors on silicon. <i>Applied Physics Letters</i> , 2008 , 93, 131101	3.4	107
33	Optics with single nanowires. <i>Comptes Rendus Physique</i> , 2008 , 9, 804-815	1.4	20
32	Fibre-coupled, single photon detector based on NbN superconducting nanostructures for quantum communications. <i>Journal of Modern Optics</i> , 2007 , 54, 315-326	1.1	10
31	Growth and characterization of InP nanowires with InAsP insertions. <i>Nano Letters</i> , 2007 , 7, 1500-4	11.5	102
30	Single quantum dot nanowire LEDs. <i>Nano Letters</i> , 2007 , 7, 367-71	11.5	310
29	Fiber-coupled NbN superconducting single-photon detectors for quantum correlation measurements 2007 ,		7
28	Fiber-coupled single-photon detectors based on NbN superconducting nanostructures for practical quantum cryptography and photon-correlation studies. <i>Applied Physics Letters</i> , 2006 , 88, 261113	3.4	41
27	Time-resolved and antibunching experiments on single quantum dots at 1300nm. <i>Applied Physics Letters</i> , 2006 , 88, 131102	3.4	91
26	Growth and characterization of single quantum dots emitting at 1300 nm. <i>Applied Physics Letters</i> , 2005 , 86, 101908	3.4	134
25	Optically bright quantum dots in single Nanowires. <i>Nano Letters</i> , 2005 , 5, 1439-43	11.5	241

24	Fiber-coupled quantum-communications receiver based on two NbN superconducting single-photon detectors 2005 ,		1
23	Growth of single quantum dots on preprocessed structures: Single photon emitters on a tip. <i>Applied Physics Letters</i> , 2005 , 86, 091911	3.4	12
22	Three-photon cascade from single self-assembled InP quantum dots. <i>Physical Review B</i> , 2004 , 69,	3.3	37
21	Single-photon Fourier spectroscopy of excitons and biexcitons in single quantum dots. <i>Physical Review B</i> , 2004 , 69,	3.3	30
20	Quantum optics with single quantum dot devices. <i>New Journal of Physics</i> , 2004 , 6, 96-96	2.9	34
19	Visible single-photon generation from semiconductor quantum dots. <i>New Journal of Physics</i> , 2004 , 6, 90-90	2.9	45
18	Fabrication and time-resolved studies of visible microdisk lasers. <i>Journal of Applied Physics</i> , 2003 , 93, 2307-2309	2.5	14
17	Luminescence polarization of ordered GaInP/InP islands. <i>Applied Physics Letters</i> , 2003 , 82, 627-629	3.4	10
16	Generating visible single photons on demand with single InP quantum dots. <i>Applied Physics Letters</i> , 2003 , 82, 1509-1511	3.4	88
15	Solid-state single photon sources: light collection strategies. <i>European Physical Journal D</i> , 2002 , 18, 197-210	1.3	71
14	Improved light extraction from emitters in high refractive index materials using solid immersion lenses. <i>Journal of Applied Physics</i> , 2002 , 92, 660-665	2.5	52
13	. <i>European Physical Journal D</i> , 2002 , 18, 197-210	1.3	63
12	Excited State Dynamics in In _{0.5} Al _{0.04} Ga _{0.46} As/Al _{0.08} Ga _{0.92} As Self-Assembled Quantum Dots. <i>Physica Status Solidi (B): Basic Research</i> , 2001 , 224, 447-451	1.3	
11	Random telegraph noise in the photoluminescence of individual Ga _x In _{1-x} As quantum dots in GaAs. <i>Physical Review B</i> , 2001 , 64,	3.3	12
10	Reflection second-harmonic microscopy of individual semiconductor microstructures. <i>Journal of Applied Physics</i> , 2001 , 90, 6357-6362	2.5	9
9	Size dependence of Eu ²⁺ fluorescence in ZnS:Eu ²⁺ nanoparticles. <i>Journal of Applied Physics</i> , 2001 , 89, 2671-2675	2.5	54
8	Crystal field, phonon coupling and emission shift of Mn ²⁺ in ZnS:Mn nanoparticles. <i>Journal of Applied Physics</i> , 2001 , 89, 1120-1129	2.5	172
7	Single quantum dots emit single photons at a time: Antibunching experiments. <i>Applied Physics Letters</i> , 2001 , 78, 2476-2478	3.4	183

- 6 Indium enrichment in Ga_{1-x}In_xP self-assembled quantum dots. *Journal of Applied Physics*, **2000**, 88, 6378-6381 3
- 5 Time-resolved studies of single semiconductor quantum dots. *Physical Review B*, **1999**, 59, 5021-5025 3.3 53
- 4 Size reduction of self assembled quantum dots by annealing. *Applied Surface Science*, **1998**, 134, 47-52 6.7 15
- 3 Conduction Band Spin Splitting in In_xGa_{1-x}As/GaAs Quantum Wells. *Japanese Journal of Applied Physics*, **1998**, 37, 4272-4276 1.4 5
- 2 Single semiconductor quantum dots in nanowires: growth, optics, and devices 21-40
- 1 Fractal Superconducting Nanowires Detect Infrared Single Photons with 84% System Detection Efficiency, 1.02 Polarization Sensitivity, and 20.8 ps Timing Resolution. *ACS Photonics*, 6.3 3