

Karl K Berggren

List of Publications by Year in descending order

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212
papers

11,495
citations

28736

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times ranked

11280
citing authors

#	ARTICLE	IF	CITATIONS
1	PHz Electronic Device Design and Simulation for Waveguide-Integrated Carrier-Envelope Phase Detection. <i>Journal of Lightwave Technology</i> , 2022, 40, 3823-3831.	2.7	1
2	Broadband Solenoidal Haloscope for Terahertz Axion Detection. <i>Physical Review Letters</i> , 2022, 128, 131801.	2.9	49
3	Electron Emission Regimes of Planar Nano Vacuum Emitters. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 3953-3959.	1.6	11
4	Electrical control of surface acoustic waves. <i>Nature Electronics</i> , 2022, 5, 348-355.	13.1	22
5	New Constraints on Dark Photon Dark Matter with Superconducting Nanowire Detectors in an Optical Haloscope. <i>Physical Review Letters</i> , 2022, 128, .	2.9	43
6	Surface Plasmon Enhanced Upconversion Fluorescence in Short-Wave Infrared for In Vivo Imaging of Ovarian Cancer. <i>ACS Nano</i> , 2022, 16, 12930-12940.	7.3	3
7	Large-Area Superconducting Nanowire Single-Photon Detectors for Operation at Wavelengths up to 7.4 μ m. <i>Nano Letters</i> , 2022, 22, 5667-5673.	4.5	13
8	Roadmap on emerging hardware and technology for machine learning. <i>Nanotechnology</i> , 2021, 32, 012002.	1.3	104
9	Enhancing Plasmonic Spectral Tunability with Anomalous Material Dispersion. <i>Nano Letters</i> , 2021, 21, 91-98.	4.5	6
10	Impedance-matched differential SNSPDs for practical photon counting with sub-10 ps timing jitter. , 2021, , .		1
11	Compact and Tunable Forward Coupler Based on High-Impedance Superconducting Nanowires. <i>Physical Review Applied</i> , 2021, 15, .	1.5	5
12	Development of Quantum Interconnects (QulCs) for Next-Generation Information Technologies. <i>PRX Quantum</i> , 2021, 2, .	3.5	172
13	Superconducting MoN thin films prepared by DC reactive magnetron sputtering for nanowire single-photon detectors. <i>Superconductor Science and Technology</i> , 2021, 34, 035012.	1.8	9
14	Enhancing the performance of superconducting nanowire-based detectors with high-filling factor by using variable thickness. <i>Superconductor Science and Technology</i> , 2021, 34, 035010.	1.8	14
15	Impact of DC bias on weak optical-field-driven electron emission in nano-vacuum-gap detectors. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, 1009.	0.9	8
16	On-chip sampling of optical fields with attosecond resolution. <i>Nature Photonics</i> , 2021, 15, 456-460.	15.6	60
17	Single-photon detection in the mid-infrared up to 10 μ m wavelength using tungsten silicide superconducting nanowire detectors. <i>APL Photonics</i> , 2021, 6, .	3.0	68
18	Nanoscale refractory doped titanium nitride field emitters. <i>Nanotechnology</i> , 2021, 32, 315208.	1.3	1

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19	Image-histogram-based secondary electron counting to evaluate detective quantum efficiency in SEM. Ultramicroscopy, 2021, 224, 113238.	0.8	3
20	Nanoantenna design for enhanced carrier envelope-phase sensitivity. Journal of the Optical Society of America B: Optical Physics, 2021, 38, C11.	0.9	8
21	Precise, subnanosecond, and high-voltage switching enabled by gallium nitride electronics integrated into complex loads. Review of Scientific Instruments, 2021, 92, 074704.	0.6	2
22	Electrostatic electron mirror in SEM for simultaneous imaging of top and bottom surfaces of a sample. Ultramicroscopy, 2021, 226, 113304.	0.8	0
23	Physical properties of amorphous molybdenum silicide films for single-photon detectors. Superconductor Science and Technology, 2021, 34, 095003.	1.8	9
24	Development of an Array of Kinetic Inductance Magnetometers (KIMs). IEEE Transactions on Applied Superconductivity, 2021, 31, 1-4.	1.1	1
25	Probing Kinetic Inductance Pulses Below the Hotspot Activation Threshold of a Superconducting Nanowire. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.1	1
26	Initial Design of a W-Band Superconducting Kinetic Inductance Qubit. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.1	9
27	Long term field emission current stability characterization of planar field emitter devices. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2021, 39, .	0.6	7
28	A scalable superconducting nanowire memory cell and preliminary array test. Superconductor Science and Technology, 2021, 34, 035003.	1.8	8
29	Real-time dose control for electron-beam lithography. Nanotechnology, 2021, 32, 095302.	1.3	2
30	Determining Dark-Matter Electron Scattering Rates from the Dielectric Function. Physical Review Letters, 2021, 127, 151802.	2.9	40
31	Emission Behavior of Planar Nano-Vacuum Field Emitters. , 2021, , .		1
32	50% transmission lines with extreme wavelength compression based on superconducting nanowires on high-permittivity substrates. Applied Physics Letters, 2021, 119, .	1.5	2
33	Long Term Stability Study of Planar, Two-terminal Field Emitters. , 2021, , .		0
34	Design and characterization of superconducting nanowire-based processors for acceleration of deep neural network training. Nanotechnology, 2020, 31, 025204.	1.3	8
35	Focused-helium-ion-beam blow forming of nanostructures: radiation damage and nanofabrication. Nanotechnology, 2020, 31, 045302.	1.3	16
36	Single-Photon Single-Flux Coupled Detectors. Nano Letters, 2020, 20, 664-668.	4.5	4

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37	Properties of a Nanowire Kinetic Inductance Detector Array. Journal of Low Temperature Physics, 2020, 199, 631-638.	0.6	1
38	Oscilloscopic Capture of Greater-Than-100 GHz, Ultra-Low Power Optical Waveforms Enabled by Integrated Electrooptic Devices. Journal of Lightwave Technology, 2020, 38, 166-173.	2.7	12
39	Light phase detection with on-chip petahertz electronic networks. Nature Communications, 2020, 11, 3407.	5.8	37
40	Multilayered Heater Nanocryotron: A Superconducting-Nanowire-Based Thermal Switch. Physical Review Applied, 2020, 14, .	1.5	12
41	Superconducting Nanowire Spiking Element for Neural Networks. Nano Letters, 2020, 20, 8059-8066.	4.5	30
42	Fabrication of gold nanostructures using wet lift-off without adhesion promotion. Microelectronic Engineering, 2020, 233, 111420.	1.1	3
43	Nanostructured-membrane electron phase plates. Ultramicroscopy, 2020, 217, 113053.	0.8	2
44	Large-area microwire MoSi single-photon detectors at 1550nm wavelength. Applied Physics Letters, 2020, 116, .	1.5	49
45	Source shot noise mitigation in focused ion beam microscopy by time-resolved measurement. Ultramicroscopy, 2020, 211, 112948.	0.8	17
46	Demonstration of sub-3 ps temporal resolution with a superconducting nanowire single-photon detector. Nature Photonics, 2020, 14, 250-255.	15.6	285
47	Cryogenic Memory Architecture Integrating Spin Hall Effect based Magnetic Memory and Superconductive Cryotron Devices. Scientific Reports, 2020, 10, 248.	1.6	25
48	Commensurability-Driven Orientation Control during Block Copolymer Directed Self-Assembly. ACS Applied Materials & Interfaces, 2020, 12, 10852-10857.	4.0	5
49	Resolving Photon Numbers Using a Superconducting Nanowire with Impedance-Matching Taper. Nano Letters, 2020, 20, 3858-3863.	4.5	57
50	Electron energy loss of ultraviolet plasmonic modes in aluminum nanodisks. Optics Express, 2020, 28, 27405.	1.7	6
51	Cavity electro-optics in thin-film lithium niobate for efficient microwave-to-optical transduction. Optica, 2020, 7, 1714.	4.8	66
52	Vanishing carrier-envelope-phase-sensitive response in optical-field photoemission from plasmonic nanoantennas. Nature Physics, 2019, 15, 1128-1133.	6.5	27
53	Towards integrated tunable all-silicon free-electron light sources. Nature Communications, 2019, 10, 3176.	5.8	55
54	Detecting Sub-GeV Dark Matter with Superconducting Nanowires. Physical Review Letters, 2019, 123, 151802.	2.9	116

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55	Performance Analysis of Interaction-Free-Measurement-based Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2019, 25, 152-153.	0.2	0
56	Determining the depairing current in superconducting nanowire single-photon detectors. <i>Physical Review B</i> , 2019, 100, .	1.1	31
57	Antiresonant-like behavior in carrier-envelope-phase-sensitive sub-optical-cycle photoemission from plasmonic nanoantennas. <i>EPJ Web of Conferences</i> , 2019, 205, 08011.	0.1	1
58	Design of a Power Efficient Artificial Neuron Using Superconducting Nanowires. <i>Frontiers in Neuroscience</i> , 2019, 13, 933.	1.4	33
59	Investigation of ma-N 2400 series photoresist as an electron-beam resist for superconducting nanoscale devices. <i>Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics</i> , 2019, 37, 051207.	0.6	4
60	Measuring thickness in thin NbN films for superconducting devices. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, 041501.	0.9	8
61	Enhancement of Optical Response in Nanowires by Negative-Tone PMMA Lithography. <i>IEEE Transactions on Applied Superconductivity</i> , 2019, 29, 1-5.	1.1	3
62	Bridging the Gap Between Nanowires and Josephson Junctions: A Superconducting Device Based on Controlled Fluxon Transfer. <i>Physical Review Applied</i> , 2019, 11, .	1.5	14
63	Demonstration of Microwave Multiplexed Readout of DC-Biased Superconducting Nanowire Detectors. <i>IEEE Transactions on Applied Superconductivity</i> , 2019, 29, 1-4.	1.1	22
64	Jitter Characterization of a Dual-Readout SNSPD. <i>IEEE Transactions on Applied Superconductivity</i> , 2019, 29, 1-4.	1.1	7
65	Design and simulation of a linear electron cavity for quantum electron microscopy. <i>Ultramicroscopy</i> , 2019, 199, 50-61.	0.8	10
66	Superconducting nanowire single-photon detector with integrated impedance-matching taper. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	29
67	A general theoretical and experimental framework for nanoscale electromagnetism. <i>Nature</i> , 2019, 576, 248-252.	13.7	103
68	Operation of a Superconducting Nanowire in Two Detection Modes: KID and SPD. <i>Journal of Low Temperature Physics</i> , 2019, 194, 386-393.	0.6	1
69	A kinetic-inductance-based superconducting memory element with shunting and sub-nanosecond write times. <i>Superconductor Science and Technology</i> , 2019, 32, 015005.	1.8	11
70	Superconducting Nanowire Fabrication using Dislocation Engineering. , 2019, , .		4
71	A superconducting nanowire can be modeled by using SPICE. <i>Superconductor Science and Technology</i> , 2018, 31, 055010.	1.8	39
72	Exploring proximity effects and large depth of field in helium ion beam lithography: large-area dense patterns and tilted surface exposure. <i>Nanotechnology</i> , 2018, 29, 275301.	1.3	12

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73	A compact superconducting nanowire memory element operated by nanowire cryotrons. Superconductor Science and Technology, 2018, 31, 035009.	1.8	40
74	Nano-beam and nano-target effects in ion radiation. Nanoscale, 2018, 10, 1598-1606.	2.8	14
75	Directed self-assembly of a two-state block copolymer system. Nano Convergence, 2018, 5, 25.	6.3	7
76	Optical modeling of superconducting nanowire single photon detectors using the transfer matrix method. Applied Optics, 2018, 57, 4872.	0.9	8
77	Efficient two-port electron beam splitter via a quantum interaction-free measurement. Physical Review A, 2018, 98, .	1.0	7
78	Smithâ€™s Purcell Radiation from Low-Energy Electrons. ACS Photonics, 2018, 5, 3513-3518.	3.2	46
79	A distributed electrical model for superconducting nanowire single photon detectors. Applied Physics Letters, 2018, 113, .	1.5	12
80	A scalable multi-photon coincidence detector based on superconducting nanowires. Nature Nanotechnology, 2018, 13, 596-601.	15.6	62
81	Frequency Pulling and Mixing of Relaxation Oscillations in Superconducting Nanowires. Physical Review Applied, 2018, 9, .	1.5	17
82	Nanoscale spirals by directed self-assembly. Nano Futures, 2017, 1, 015001.	1.0	26
83	A nanocryotron comparator can connect single-flux-quantum circuits to conventional electronics. Superconductor Science and Technology, 2017, 30, 044002.	1.8	36
84	Single-photon imager based on a superconducting nanowire delay line. Nature Photonics, 2017, 11, 247-251.	15.6	127
85	Optical-field-controlled photoemission from plasmonic nanoparticles. Nature Physics, 2017, 13, 335-339.	6.5	129
86	Atom sieve for nanometer resolution neutral helium microscopy. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2017, 35, .	0.6	3
87	Orientational Preference in Multilayer Block Copolymer Nanomeshes with Respect to Layer-to-Layer Commensurability. Macromolecules, 2017, 50, 8258-8266.	2.2	12
88	Mapping Photoemission and Hot-Electron Emission from Plasmonic Nanoantennas. Nano Letters, 2017, 17, 6069-6076.	4.5	57
89	Bias sputtered NbN and superconducting nanowire devices. Applied Physics Letters, 2017, 111, .	1.5	46
90	Superconductorâ€™s superconductor bilayers for enhancing single-photon detection. Nanotechnology, 2017, 28, 435205.	1.3	13

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91	Modular assembly of a protein nanotriangle using orthogonally interacting coiled coils. Scientific Reports, 2017, 7, 10577.	1.6	31
92	A nanofabricated, monolithic, path-separated electron interferometer. Scientific Reports, 2017, 7, 1677.	1.6	9
93	Rapid shear alignment of sub-10 nm cylinder-forming block copolymer films based on thermal expansion mismatch. Nano Futures, 2017, 1, 035006.	1.0	4
94	Two-photon detector by using superconducting transmission lines. , 2017, , .		0
95	Monolithic Multi-Grating Diffraction in a Convergent Electron Beam. Microscopy and Microanalysis, 2016, 22, 166-167.	0.2	0
96	The Orientations of Large Aspect-Ratio Coiled-Coil Proteins Attached to Gold Nanostructures. Small, 2016, 12, 1498-1505.	5.2	2
97	Using Geometry To Sense Current. Nano Letters, 2016, 16, 7626-7631.	4.5	25
98	Microwave dynamics of high aspect ratio superconducting nanowires studied using self-resonance. Journal of Applied Physics, 2016, 119, .	1.1	37
99	Superconducting nanowire detector jitter limited by detector geometry. Applied Physics Letters, 2016, 109, .	1.5	86
100	Designs for a quantum electron microscope. Ultramicroscopy, 2016, 164, 31-45.	0.8	122
101	MoS ₂ Field-Effect Transistor with Sub-10 nm Channel Length. Nano Letters, 2016, 16, 7798-7806.	4.5	389
102	nanoSQUID operation using kinetic rather than magnetic induction. Scientific Reports, 2016, 6, 28095.	1.6	12
103	High-Energy Surface and Volume Plasmons in Nanopatterned Sub-10 nm Aluminum Nanostructures. Nano Letters, 2016, 16, 4149-4157.	4.5	38
104	Multilayer block copolymer meshes by orthogonal self-assembly. Nature Communications, 2016, 7, 10518.	5.8	85
105	Free-space-coupled superconducting nanowire single-photon detectors for infrared optical communications. Optics Express, 2016, 24, 3248.	1.7	37
106	Superconducting Nanowire Architectures for Single Photon Detection. Quantum Science and Technology, 2016, , 3-30.	1.5	6
107	AXSIS: Exploring the frontiers in attosecond X-ray science, imaging and spectroscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 829, 24-29.	0.7	80
108	Dimensional Tailoring of Hydrothermally Grown Zinc Oxide Nanowire Arrays. Nano Letters, 2016, 16, 753-759.	4.5	66

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109	Superconducting Nanowire Single-Photon Detector on Aluminum Nitride. , 2016, , .		8
110	Superconducting Nanowire Single-Photon Detectors and Nanowire-Based Superconducting On-Chip Electronics. , 2016, , .		0
111	Self-assembly of block copolymers by graphoepitaxy. , 2015, , 199-232.		3
112	Large-area NbN superconducting nanowire avalanche photon detectors with saturated detection efficiency. Proceedings of SPIE, 2015, , .	0.8	0
113	Control of zinc oxide nanowire array properties with electron-beam lithography templating for photovoltaic applications. Nanotechnology, 2015, 26, 075303.	1.3	30
114	On-chip detection of non-classical light by scalable integration of single-photon detectors. Nature Communications, 2015, 6, 5873.	5.8	238
115	Infrared transmissometer to measure the thickness of NbN thin films. Applied Optics, 2015, 54, 5743.	2.1	3
116	Low-jitter single-photon detector arrays integrated with silicon and aluminum nitride photonic chips. , 2015, , .		0
117	Saturated Photon Detection Efficiency in NbN Superconducting Photon Detectors. , 2015, , .		1
118	Fabrication Process Yielding Saturated Nanowire Single-Photon Detectors With 24-ps Jitter. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 1-7.	1.9	27
119	Eight-fold signal amplification of a superconducting nanowire single-photon detector using a multiple-avalanche architecture. Optics Express, 2014, 22, 24574.	1.7	12
120	Universal scaling of the critical temperature for thin films near the superconducting-to-insulating transition. Physical Review B, 2014, 90, .	1.1	70
121	Three-dimensional nanofabrication using hydrogen silsesquioxane/poly(methylmethacrylate) bilayer resists. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2014, 32, .	0.6	5
122	Self-Assembly: Sacrificial-Post Templating Method for Block Copolymer Self-Assembly (Small 3/2014). Small, 2014, 10, 418-418.	5.2	0
123	Sacrificial-Post Templating Method for Block Copolymer Self-Assembly. Small, 2014, 10, 493-499.	5.2	25
124	High-Yield, Ultrafast, Surface Plasmon-Enhanced, Au Nanorod Optical Field Electron Emitter Arrays. ACS Nano, 2014, 8, 11474-11482.	7.3	67
125	A Superconducting-Nanowire Three-Terminal Electrothermal Device. Nano Letters, 2014, 14, 5748-5753.	4.5	116
126	Three-Dimensional Nanofabrication by Block Copolymer Self-Assembly. Advanced Materials, 2014, 26, 4386-4396.	11.1	155

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127	Determining the Resolution Limits of Electron-Beam Lithography: Direct Measurement of the Point-Spread Function. Nano Letters, 2014, 14, 4406-4412.	4.5	67
128	Design rules for self-assembled block copolymer patterns using tiled templates. Nature Communications, 2014, 5, 3305.	5.8	78
129	Controlled placement of colloidal quantum dots in sub-15 nm clusters. Nanotechnology, 2013, 24, 125302.	1.3	16
130	Superconducting-nanowire single-photon-detector linear array. Applied Physics Letters, 2013, 103, 142602.	1.5	37
131	Resolution Limits of Electron-Beam Lithography toward the Atomic Scale. Nano Letters, 2013, 13, 1555-1558.	4.5	350
132	On-fiber assembly of membrane-integrated superconducting-nanowire single-photon detectors. , 2013, , .		1
133	Improvement of infrared single-photon detectors absorptance by integrated plasmonic structures. Scientific Reports, 2013, 3, 2406.	1.6	17
134	Detectors Based on Superconductors. Experimental Methods in the Physical Sciences, 2013, 45, 185-216.	0.1	1
135	Optimized polar-azimuthal orientations for polarized light illumination of different superconducting nanowire single-photon detector designs. Journal of Nanophotonics, 2012, 6, 063523.	0.4	3
136	Efficient Single Photon Detection From 0.5 To 5 Micron Wavelength. , 2012, , .		2
137	Cavity-Integrated Ultra-Narrow Superconducting Nanowire Single-Photon Detector Based on a Thick Niobium Nitride Film. , 2012, , .		2
138	Afterpulsing and instability in superconducting nanowire avalanche photodetectors. Applied Physics Letters, 2012, 100, .	1.5	43
139	Timing performance of 30-nm-wide superconducting nanowire avalanche photodetectors. Applied Physics Letters, 2012, 100, .	1.5	31
140	Topographic Templating: Rectangular Symmetry Morphologies in a Topographically Templated Block Copolymer (Adv. Mater. 31/2012). Advanced Materials, 2012, 24, 4343-4343.	11.1	1
141	Aligned Sub-10-nm Block Copolymer Patterns Templated by Post Arrays. ACS Nano, 2012, 6, 2071-2077.	7.3	74
142	Efficient Single Photon Detection from 500 nm to 5 μ m Wavelength. Nano Letters, 2012, 12, 4799-4804.	4.5	155
143	Modeling the Point-Spread Function in Helium-Neon Lithography. Scanning, 2012, 34, 121-128.	0.7	20
144	Single Photon Counting from Individual Nanocrystals in the Infrared. Nano Letters, 2012, 12, 2953-2958.	4.5	48

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145	Rectangular Symmetry Morphologies in a Topographically Templated Block Copolymer. <i>Advanced Materials</i> , 2012, 24, 4249-4254.	11.1	29
146	Critical-current reduction in thin superconducting wires due to current crowding. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	84
147	Assembly of Sub-10-nm Block Copolymer Patterns with Mixed Morphology and Period Using Electron Irradiation and Solvent Annealing. <i>Nano Letters</i> , 2011, 11, 5079-5084.	4.5	113
148	Geometry-dependent critical currents in superconducting nanocircuits. <i>Physical Review B</i> , 2011, 84, .	1.1	193
149	Single-Photon Detectors Based on Ultranarrow Superconducting Nanowires. <i>Nano Letters</i> , 2011, 11, 2048-2053.	4.5	167
150	Highly Ordered Square Arrays from a Templated ABC Triblock Terpolymer. <i>Nano Letters</i> , 2011, 11, 2849-2855.	4.5	55
151	Neon Ion Beam Lithography (NIBL). <i>Nano Letters</i> , 2011, 11, 4343-4347.	4.5	69
152	Lithography. <i>Nanoscale</i> , 2011, 3, 2662.	2.8	5
153	Numerical method to optimize the polar-azimuthal orientation of infrared superconducting-nanowire single-photon detectors. <i>Applied Optics</i> , 2011, 50, 5949.	2.1	9
154	Superconducting nanowire single-photon detectors integrated with optical nano-antennae. <i>Optics Express</i> , 2011, 19, 17.	1.7	112
155	Polar-azimuthal angle dependent efficiency of different infrared superconducting nanowire single-photon detector designs. <i>Proceedings of SPIE</i> , 2011, , .	0.8	1
156	Sub-5keV electron-beam lithography in hydrogen silsesquioxane resist. <i>Microelectronic Engineering</i> , 2011, 88, 3070-3074.	1.1	19
157	Controlled Collapse of High-Aspect-Ratio Nanostructures. <i>Small</i> , 2011, 7, 2661-2668.	5.2	44
158	Electrochemical development of hydrogen silsesquioxane by applying an electrical potential. <i>Nanotechnology</i> , 2011, 22, 375301.	1.3	6
159	<i>In situ</i> study of hydrogen silsesquioxane dissolution rate in salty and electrochemical developers. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011, 29, 06FJ01.	0.6	8
160	The Scanning Electron Microscope As An Accelerator For The Undergraduate Advanced Physics Laboratory. , 2011, , .		0
161	Superconducting nanowire single photon detectors. , 2011, , .		6
162	Electrothermal simulation of superconducting nanowire avalanche photodetectors. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	30

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163	Templated self-assembly of Si-containing block copolymers for nanoscale device fabrication. Proceedings of SPIE, 2010, , .	0.8	9
164	Complex self-assembled patterns using sparse commensurate templates with locally varying motifs. Nature Nanotechnology, 2010, 5, 256-260.	15.6	245
165	Superconducting microfabricated ion traps. Applied Physics Letters, 2010, 97, .	1.5	39
166	Metrology for electron-beam lithography and resist contrast at the sub-10 nm scale. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C6H11-C6H17.	0.6	38
167	Development of a simple, compact, low-cost interference lithography system. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C6Q20-C6Q24.	0.6	19
168	Sub-10-nm half-pitch electron-beam lithography by using poly(methyl methacrylate) as a negative resist. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, C6C58-C6C62.	0.6	86
169	A Path to Ultranarrow Patterns Using Self-Assembled Lithography. Nano Letters, 2010, 10, 1000-1005.	4.5	229
170	Directed Self-Assembly at the 10 nm Scale by Using Capillary Force-Induced Nanocoheion. Nano Letters, 2010, 10, 3710-3716.	4.5	114
171	Sub-10 nm structures on silicon by thermal dewetting of platinum. Nanotechnology, 2010, 21, 505301.	1.3	86
172	Enhancing the Potential of Block Copolymer Lithography with Polymer Self-Consistent Field Theory Simulations. Macromolecules, 2010, 43, 8290-8295.	2.2	38
173	High-quality fiber-optic polarization entanglement distribution at 13 μ m telecom wavelength. Optics Letters, 2010, 35, 1392.	1.7	47
174	High-order temporal coherences of chaotic and laser light. Optics Express, 2010, 18, 1430.	1.7	60
175	Pulse imaging and nonadiabatic control of solid-state artificial atoms. Physical Review B, 2009, 80, .	1.1	26
176	Sub-15nm nanoimprint molds and pattern transfer. Journal of Vacuum Science & Technology B, 2009, 27, 2837-2840.	1.3	42
177	Scanning-helium-ion-beam lithography with hydrogen silsesquioxane resist. Journal of Vacuum Science & Technology B, 2009, 27, 2702-2706.	1.3	95
178	Low-cost interference lithography. Journal of Vacuum Science & Technology B, 2009, 27, 2958.	1.3	31
179	Fiber-coupled nanowire photon counter at 1550 nm with 24% system detection efficiency. Optics Letters, 2009, 34, 3607.	1.7	51
180	Photon-number-resolution with sub-30-ps timing using multi-element superconducting nanowire single photon detectors. Journal of Modern Optics, 2009, 56, 364-373.	0.6	122

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181	Suppressed Critical Current in Superconducting Nanowire Single-Photon Detectors With High Fill-Factors. IEEE Transactions on Applied Superconductivity, 2009, 19, 318-322.	1.1	24
182	Limiting factors in sub-10-nm scanning-electron-beam lithography. Journal of Vacuum Science & Technology B, 2009, 27, 2616.	1.3	55
183	Understanding of hydrogen silsesquioxane electron resist for sub-5-nm-half-pitch lithography. Journal of Vacuum Science & Technology B, 2009, 27, 2622-2627.	1.3	148
184	Electrothermal feedback in superconducting nanowire single-photon detectors. Physical Review B, 2009, 79, .	1.1	132
185	Contrast enhancement behavior of hydrogen silsesquioxane in a salty developer. Journal of Vacuum Science & Technology B, 2009, 27, 2635-2639.	1.3	26
186	Amplitude spectroscopy of a solid-state artificial atom. Nature, 2008, 455, 51-57.	13.7	134
187	Measuring intensity correlations with a two-element superconducting nanowire single-photon detector. Physical Review A, 2008, 78, .	1.0	15
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