Massimo A Ghioni

List of Publications by Year
in descending order

216	5,323	109321	106344
papers	citations	35 h-index	65 g-index

219	219	219	2583
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	4Âns dead time with a fully integrated active quenching circuit driving a custom single photon avalanche diode. Review of Scientific Instruments, 2022, 93, 043103.	1.3	3
2	10-nanosecond dead time and low afterpulsing with a free-running reach-through single-photon avalanche diode. Review of Scientific Instruments, 2022, 93, .	1.3	2
3	Hybrid Resonant Switched-Capacitor Converter for 48â€“3.4 V Direct Conversion. IEEE Transactions on Power Electronics, 2022, 37, 12998-13002.	7.9	10
4	Design issues and performance analysis of CCM boost converters with RHP zero mitigation via inductor current sensing. Journal of Power Electronics, 2021, 21, 285-295.	1.5	8
5	Custom silicon technology for SPAD-arrays with red-enhanced sensitivity and low timing jitter. Optics Express, 2021, 29, 4559.	3.4	20
6	Overcoming Pile-up Limitation in Fluorescence Lifetime Imaging. , 2021, , .		0
7	4.3ps rms jitter time to amplitude converter in 350nm Si-Ge technology. , 2021, , .		6
8	Toward ultra-fast time-correlated single-photon counting: A compact module to surpass the pile-up limit. Review of Scientific Instruments, 2021, 92, 063702.	1.3	12
9	Recent Advances and Future Perspectives of Singleâ€Photon Avalanche Diodes for Quantum Photonics Applications. Advanced Quantum Technologies, 2021, 4, 2000102.	3.9	54
10	Accurate non-invasive measurement of the turn-on transition of fast gated single photon avalanche diodes. Review of Scientific Instruments, 2019, 90, 033102.	1.3	2
11	Fully Integrated Active Quenching Circuit Driving Custom-Technology SPADs With 6.2-ns Dead Time. IEEE Photonics Technology Letters, 2019, 31, 102-105.	2.5	41
12	Fast fully integrated active quenching circuit for single photon counting up to 160 Mcounts/s. , 2019, , .		0
13	High performance single photon counting and timing with single photon avalanche diodes. , 2019, , .		0
14	Fully integrated high-speed electronics for remote sensing with a large array of single photon avalanche diodes. , 2019, , .		0
15	8x8 single photon counting module for spaceborne lidar. , 2019, , .		0
16	High-speed fully-integrated electronics for high-performance measurements with single photon avalanche diode arrays. , 2019, , .		0
17	152-dB Dynamic Range With a Large-Area Custom-Technology Single-Photon Avalanche Diode. IEEE Photonics Technology Letters, 2018, 30, 391-394.	2.5	28
18	Red-Enhanced Photon Detection Module Featuring a $32 imes 1$ Single-Photon Avalanche Diode Array. IEEE Photonics Technology Letters, 2018, 30, 557-560.	2.5	13

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19	48-spot single-molecule FRET setup with periodic acceptor excitation. Journal of Chemical Physics, 2018, 148, 123304.	3.0	12
20	Optical crosstalk in SPAD arrays for high-throughput single-molecule fluorescence spectroscopy. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 912, 255-258.	1.6	6
21	37ps-Precision Time-Resolving Active Quenching Circuit for High-Performance Single Photon Avalanche Diodes. IEEE Photonics Journal, 2018, 10, 1-13.	2.0	15
22	83-ps Timing Jitter With a Red-Enhanced SPAD and a Fully Integrated Front End Circuit. IEEE Photonics Technology Letters, 2018, 30, 1727-1730.	2.5	20
23	Fast fully-integrated front-end circuit to overcome pile-up limits in time-correlated single photon counting with single photon avalanche diodes. Optics Express, 2018, 26, 15398.	3.4	23
24	Triple epitaxial singleâ€photon avalanche diode for multichannel timing applications. Electronics Letters, 2018, 54, 644-645.	1.0	4
25	Highly efficient router-based readout algorithm for single-photon-avalanche-diode imagers for time-correlated experiments. , 2018, , .		0
26	Smart routing logic for highly efficient readout of single photon avalanche diode arrays for time-resolved imaging. , 2018, , .		0
27	Towards high-speed, low-distortion time-correlated single photon counting measurements. , 2018, , .		0
28	Fully integrated electronics for high-performance time-resolved imagers with single photon avalanche diode arrays. , 2018, , .		0
29	Fast fully integrated electronics for time-resolved imaging with high-performance single photon avalanche diodes. , 2018, , .		0
30	Toward a 2D high-performance multi-channel system for time-correlated single-photon counting applications. , 2017, , .		0
31	Note: Fully integrated active quenching circuit achieving 100 MHz count rate with custom technology single photon avalanche diodes. Review of Scientific Instruments, 2017, 88, 026103.	1.3	21
32	16-Ch time-resolved single-molecule spectroscopy using line excitation. Proceedings of SPIE, 2017, 10071, .	0.8	4
33	Highly efficient readout integrated circuit for dense arrays of SPAD detectors in time-correlated measurements. Proceedings of SPIE, 2017, , .	0.8	1
34	Improving the timing accuracy of SiPMs by timeâ€walk compensation. Electronics Letters, 2017, 53, 171-173.	1.0	1
35	32ps timing jitter with a fully integrated front end circuit and single photon avalanche diodes. Electronics Letters, 2017, 53, 328-329.	1.0	17
36	Readout Architectures for High Efficiency in Time-Correlated Single Photon Counting Experimentsâ€"Analysis and Review. IEEE Photonics Journal, 2017, 9, 1-15.	2.0	19

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37	High-efficiency dynamic routing architecture for the readout of single photon avalanche diode arrays in time-correlated measurements. Proceedings of SPIE, 2017, , .	0.8	0
38	High-performance integrated pick-up circuit for SPAD arrays in time-correlated single photon counting. , 2017, , .		0
39	Development of a high-performance multichannel system for time-correlated single photon counting. , 2017, , .		0
40	Development and characterization of an 8x8 SPAD-array module for gigacount per second applications. Proceedings of SPIE, 2017, 10229, .	0.8	4
41	32-channel time-correlated-single-photon-counting system for high-throughput lifetime imaging. Review of Scientific Instruments, 2017, 88, 083704.	1.3	11
42	Note: Wide-operating-range control for thermoelectric coolers. Review of Scientific Instruments, 2017, 88, 116102.	1.3	1
43	High-speed and low-distortion solution for time-correlated single photon counting measurements: A theoretical analysis. Review of Scientific Instruments, 2017, 88, 123701.	1.3	28
44	Multispot single-molecule FRET: High-throughput analysis of freely diffusing molecules. PLoS ONE, 2017, 12, e0175766.	2.5	27
45	High-voltage integrated active quenching circuit for single photon count rate up to 80 Mcounts/s. Optics Express, 2016, 24, 17819.	3.4	32
46	High-efficiency integrated readout circuit for single photon avalanche diode arrays in fluorescence lifetime imaging. Review of Scientific Instruments, 2016, 87, 113110.	1.3	15
47	A Multispot Confocal Platform for High-Throughput Freely Diffusing Single-Molecule FRET Studies. Biophysical Journal, 2016, 110, 194a-195a.	0.5	1
48	A 16 Channel Spad Array for High-Throughput Tcspc Measurements of Single-Molecule FRET of Freely Diffusing Molecules. Biophysical Journal, 2016, 110, 633a.	0.5	0
49	Silicon technologies for arrays of Single Photon Avalanche Diodes. , 2016, 9858, .		5
50	Gigacount/second Photon Detection Module Based on an 8x8 Single-Photon Avalanche Diode Array. IEEE Photonics Technology Letters, 2016, 28, 1-1.	2.5	10
51	Improving the counting efficiency in time-correlated single photon counting experiments by dead-time optimization. Review of Scientific Instruments, 2015, 86, 113101.	1.3	38
52	A 2-GHz Bandwidth, Integrated Transimpedance Amplifier for Single-Photon Timing Applications. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2015, 23, 2819-2828.	3.1	14
53	High-performance timing electronics for single photon avalanche diode arrays. Proceedings of SPIE, 2015, , .	0.8	0
54	Eight-Channel Fully Adjustable Pulse Generator. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 2399-2408.	4.7	13

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55	A 32-channel photon counting module with embedded auto/cross-correlators for real-time parallel fluorescence correlation spectroscopy. Review of Scientific Instruments, 2014, 85, 103101.	1.3	5
56	A simple and flexible FPGA based autocorrelator for afterpulse characterization of single-photon detectors. , 2014, , .		2
57	Silicon Photon-Counting Avalanche Diodes for Single-Molecule Fluorescence Spectroscopy. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 248-267.	2.9	56
58	Compact 32-channel time-resolved single-photon detection system. Proceedings of SPIE, 2013, , .	0.8	4
59	High performance time-to-amplitude converter array. , 2013, , .		9
60	Radiation tests of single photon avalanche diode for space applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 711, 65-72.	1.6	17
61	New silicon technologies enable high-performance arrays of single photon avalanche diodes. Proceedings of SPIE, 2013, 8727, .	0.8	5
62	8-channel acquisition system for time-correlated single-photon counting. Review of Scientific Instruments, 2013, 84, 064705.	1.3	24
63	Complete and Compact 32-Channel System for Time-Correlated Single-Photon Counting Measurements. IEEE Photonics Journal, 2013, 5, 6801514-6801514.	2.0	40
64	Integrated electronics for time-resolved array of single-photon avalanche diodes. , 2013, , .		0
65	A 48-pixel array of single photon avalanche diodes for multispot single molecule analysis. Proceedings of SPIE, 2013, 8631, .	0.8	10
66	8-spot smFRET analysis using two 8-pixel SPAD arrays. , 2013, 8590, .		23
67	Single-molecule FRET experiments with a red-enhanced custom technology SPAD. , 2013, 8590, .		13
68	Avalanche current readâ€out circuit for lowâ€jitter parallel photon timing. Electronics Letters, 2013, 49, 1017-1018.	1.0	9
69	Development of new photon-counting detectors for single-molecule fluorescence microscopy. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120035.	4.0	100
70	Ultra-compact 32-channel system for time-correlated single-photon counting measurements. Proceedings of SPIE, 2013, , .	0.8	8
71	Semiconductor-Based Detectors. Experimental Methods in the Physical Sciences, 2013, 45, 83-146.	0.1	9
72	An extremely low-noise heralded single-photon source without temporal post-selection. , 2013, , .		0

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73	Custom single-photon avalanche diode with integrated front-end for parallel photon timing applications. Review of Scientific Instruments, 2012, 83, 033104.	1.3	9
74	Parallel multispot smFRET analysis using an 8-pixel SPAD array. Proceedings of SPIE, 2012, 8228, .	0.8	15
75	An extremely low-noise heralded single-photon source: A breakthrough for quantum technologies. Applied Physics Letters, 2012, 101, .	3.3	56
76	New silicon SPAD technology for enhanced red-sensitivity, high-resolution timing and system integration. Journal of Modern Optics, 2012, 59, 1489-1499.	1.3	72
77	Planar technologies for SPAD arrays with improved performances. , 2012, , .		2
78	Scintillating fibers readout by Single Photon Avalanche Diodes (SPAD) for space applications. Proceedings of SPIE, 2012, , .	0.8	1
79	High-performance SPAD array detectors for parallel photon timing applications. , 2012, , .		1
80	SPAD array module for multi-dimensional photon timing applications. Journal of Modern Optics, 2012, 59, 131-139.	1.3	19
81	Time-correlated single-photon counting system based on a monolithic time-to-amplitude converter. Journal of Modern Optics, 2012, 59, 1512-1524.	1.3	6
82	Silicon single-photon avalanche diodes for high-performance parallel photon timing. Proceedings of SPIE, 2012, , .	0.8	3
83	4 channel, 20 ps resolution, monolithic time-to-amplitude converter for multichannel TCSPC systems. Proceedings of SPIE, 2012, , .	0.8	0
84	Benchmark of a New Red-Enhanced Custom Technology Spad Detector for Single-Molecule FRET Experiments. Biophysical Journal, 2012, 102, 278a.	0.5	0
85	High-detection efficiency and picosecond timing compact detector modules with red-enhanced SPADs. , 2012, , .		6
86	Four Channel, 40 ps Resolution, Fully Integrated Time-to-Amplitude Converter for Time-Resolved Photon Counting. IEEE Journal of Solid-State Circuits, 2012, 47, 699-708.	5.4	51
87	Monolithic Time-to-Amplitude converter for TCSPC applications with 45 ps time resolution. , 2011, , .		0
88	Timing enhanced silicon SPAD design. , 2011, , .		0
89	Photonics for Life. IEEE Pulse, 2011, 2, 16-23.	0.3	3
90	Cumulative data acquisition in comparative photon-counting three-dimensional imaging. Journal of Modern Optics, 2011, 58, 244-256.	1.3	18

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91	Towards picosecond array detector for single-photon time-resolved multispot parallel analysis. Journal of Modern Optics, 2011, 58, 233-243.	1.3	7
92	Avalanche Current Measurements in SPADs by Means of Hot-Carrier Luminescence. IEEE Photonics Technology Letters, 2011, 23, 1319-1321.	2.5	7
93	An Analysis of Single-Photon Detectors in an Environmentally Robust GigaHertz Clock Rate Quantum Key Distribution System. , 2011, , .		0
94	Silicon SPAD with near-infrared enhanced spectral response. , 2011, , .		1
95	Compact eight channel SPAD module for photon timing applications. , 2011, , .		1
96	Fully integrated time-to-amplitude converter for multidimensional TCSPC applications. Proceedings of SPIE, 2011, , .	0.8	0
97	High performance SPAD array detectors for parallel photon timing applications. , 2011, , .		1
98	Photon-Timing Jitter Dependence on Injection Position in Single-Photon Avalanche Diodes. IEEE Journal of Quantum Electronics, 2011, 47, 151-159.	1.9	36
99	Improving the performance of silicon single-photon avalanche diodes. Proceedings of SPIE, 2011, , .	0.8	12
100	Parallel fluorescence photon timing module with monolithic SPAD array detector. Proceedings of SPIE, 2011, , .	0.8	2
101	Single Photon Avalanche Diodes for space applications. , 2011, , .		5
102	A physically based model for evaluating the photon detection efficiency and the temporal response of SPAD detectors. Journal of Modern Optics, 2011, 58, 210-224.	1.3	18
103	Analysis of detector performance in a gigahertz clock rate quantum key distribution system. New Journal of Physics, 2011, 13, 075008.	2.9	27
104	Planar silicon SPADs with improved photon detection efficiency. Proceedings of SPIE, 2011, , .	0.8	4
105	Single-Photon Counting Detectors. IEEE Photonics Journal, 2011, 3, 274-277.	2.0	15
106	New photon-counting detectors for single-molecule fluorescence spectroscopy and imaging. , 2011, 8033, 803316.		14
107	Planar silicon SPADs with improved photon detection efficiency. , 2010, , .		8
108	Photon-timing jitter dependence on the injection position in single-photon avalanche diodes. Proceedings of SPIE, 2010, , .	0.8	0

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109	Single-Photon Avalanche Detectors for Quantum Communications. , 2010, , .		7
110	Portable genotyping system: Four-colour microchip electrophoresis. Sensors and Actuators B: Chemical, 2010, 143, 583-589.	7.8	6
111	Improved Timing Resolution Single-Photon Detectors in Daytime Free-Space Quantum Key Distribution With 1.25 GHz Transmission Rate. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1084-1090.	2.9	11
112	A 6Ã—8 photon-counting array detector system for fast and sensitive analysis of protein microarrays. Sensors and Actuators B: Chemical, 2010, 149, 420-426.	7.8	8
113	Note: Fully integrated time-to-amplitude converter in Siâ€“Ge technology. Review of Scientific Instruments, 2010, 81, 106103.	1.3	4
114	High-throughput single-molecule fluorescence spectroscopy using parallel detection. , 2010, 7608, .		12
115	High-throughput multispot single-molecule spectroscopy. , 2010, 7571, 75710G-75710G11.		20
116	Progress in Quenching Circuits for Single Photon Avalanche Diodes. IEEE Transactions on Nuclear Science, 2010, , .	2.0	82
117	High-throughput FCS using an LCOS spatial light modulator and an 8 Ã— 1 SPAD array. Biomedical Optics Express, 2010, 1, 1408.	2.9	74
118	Single photon counting detectors in action: Retrospect and prospect. , 2010, , .		3
119	Monolithic time to amplitude converter for time correlated single photon counting. Review of Scientific Instruments, 2009, 80, 086102.	1.3	4
120	Design-oriented simulation of the Photon Detection Efficiency and temporal response of Single Photon Avalanche Diodes. , 2009, , .		3
121	Monolithic front-end system for photon timing applications. , 2009, , .		2
122	Modeling photon detection efficiency and temporal response of single photon avalanche diodes. Proceedings of SPIE, 2009, , .	0.8	18
123	Versatile electronic module for the operation of any silicon single photon avalanche diode. Journal of Modern Optics, 2009, 56, 317-325.	1.3	2
124	Avalanche buildup and propagation effects on photon-timing jitter in Si-SPAD with non-uniform electric field. Proceedings of SPIE, 2009, , .	0.8	15
125	Resonant-cavity-enhanced single photon avalanche diodes on double silicon-on-insulator substrates. Journal of Modern Optics, 2009, 56, 309-316.	1.3	15
126	Monolithic time-to-amplitude converter for photon timing applications. Proceedings of SPIE, 2009, , .	0.8	11

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127	Multipixel single-photon avalanche diode array for parallel photon counting applications. Journal of Modern Optics, 2009, 56, 326-333.	1.3	35
128	High-performance silicon single-photon avalanche diode array. Proceedings of SPIE, 2009, , .	0.8	6
129	Dualâ€color microchip electrophoresis with singleâ€photon avalanche diodes: Application to mutation detection. Electrophoresis, 2008, 29, 4972-4975.	2.4	4
130	Power Line Communication in Digitally Controlled DCâ€“DC Converters Using Switching Frequency Modulation. IEEE Transactions on Industrial Electronics, 2008, 55, 1509-1518.	7.9	71
131	A New Approach to Optical Crosstalk Modeling in Single-Photon Avalanche Diodes. IEEE Photonics Technology Letters, 2008, 20, 330-332.	2.5	35
132	Resonant-Cavity-Enhanced Single-Photon Avalanche Diodes on Reflecting Silicon Substrates. IEEE Photonics Technology Letters, 2008, 20, 413-415.	2.5	23
133	Large-area low-jitter silicon single photon avalanche diodes. Proceedings of SPIE, 2008, , .	0.8	35
134	Optical crosstalk in single photon avalanche diode arrays: a new complete model. Optics Express, 2008, 16, 8381.	3.4	106
135	A Mixed-Signal Synchronous/Asynchronous Control for High-Frequency DC-DC Boost Converters. IEEE Transactions on Industrial Electronics, 2008, 55, 2053-2060.	7.9	23
136	Novel control technique for single inductor multiple output converters operating in CCM with reduced cross-regulation. IEEE Applied Power Electronics Conference and Exposition, 2008, , .	0.0	42
137	Digital Autotuning System for Inductor Current Sensing in Voltage Regulation Module Applications. IEEE Transactions on Power Electronics, 2008, 23, 2500-2506.	7.9	22
138	Mixed-Signal Voltage-Mode Control for DCâ€“DC Converters With Inherent Analog Derivative Action. IEEE Transactions on Power Electronics, 2008, 23, 1485-1493.	7.9	16
139	Toward single-molecule detection with very compact DNA sequencer based on single-photon avalanche diode array. Proceedings of SPIE, 2008, , .	0.8	0
140	In-depth analysis of optical crosstalk in single-photon avalanche diode arrays. , 2007, , .		5
141	High-rate photon counting and picosecond timing with silicon-SPAD based compact detector modules. Journal of Modern Optics, 2007, 54, 225-237.	1.3	34
142	Novel Low-Cost Microstepping Driving Technique with Digital Current Estimation. IEEE Applied Power Electronics Conference and Exposition, 2007, , .	0.0	1
143	Synchronousâ€“Asynchronous Digital Voltage-Mode Control for DCâ€“DC Converters. IEEE Transactions on Power Electronics, 2007, 22, 1261-1268.	7.9	41
144	Operation of silicon single photon avalanche diodes at cryogenic temperature. Review of Scientific Instruments, 2007, 78, 063105.	1.3	22

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145	Self-suppression of reset induced triggering in picosecond SPAD timing circuits. Review of Scientific Instruments, 2007, 78, 086112.	1.3	12
146	Silicon single photon avalanche diodes: situation and prospect. , 2007, , .		1
147	Digital Dead Time Auto-Tuning for Maximum Efficiency Operation of Isolated DC-DC Converters. , 2007, , .		5
148	Monolithic silicon matrix detector with 50 Î¼m photon counting pixels. Journal of Modern Optics, 2007, 54, 213-223.	1.3	28
149	Autotuning of Digitally Controlled DCâ€“DC Converters Based on Relay Feedback. IEEE Transactions on Power Electronics, 2007, 22, 199-207.	7.9	138
150	High-performance mixed-signal voltage-mode control for dc-dc converters with inherent analog derivative action. , 2007, , .		4
151	Progress in Silicon Single-Photon Avalanche Diodes. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 852-862.	2.9	237
152	Compact eight-channel photon counting module with monolithic array detector. Proceedings of SPIE, 2007, , .	0.8	10
153	A view on progress of silicon single-photon avalanche diodes and quenching circuits. , 2006, 6372, 123.		7
154	Modified single photon counting modules for optimal timing performance. Review of Scientific Instruments, 2006, 77, 033104.	1.3	36
155	Monolithic active quenching and picosecond timing circuit suitable for large-area single-photon avalanche diodes. Optics Express, 2006, 14, 5021.	3.4	36
156	Planar silicon SPADs with 200-Î¼m diameter and 35-ps photon timing resolution. , 2006, 6372, 203.		19
157	Microchips and single-photon avalanche diodes for DNA separation with high sensitivity. Electrophoresis, 2006, 27, 3797-3804.	2.4	20
158	Recent advances in silicon single photon avalanche diodes and their applications. , 2006, , .		2
159	35â€...ps time resolution at room temperature with large area single photon avalanche diodes. Electronics Letters, 2005, 41, 272.	1.0	86
160	Photon-Timing Detector Module for Single-Molecule Spectroscopy With 60-ps Resolution. IEEE Journal of Selected Topics in Quantum Electronics, 2004, 10, 788-795.	2.9	28
161	Microelectronic photosensors for genetic diagnostic microsystems. Sensors and Actuators B: Chemical, 2004, 100, 158-162.	7.8	17
162	Correction to â€œAn Innovative Digital Control Architecture for Low-Voltage, High-Current DCâ€“DC Converters With Tight Voltage Regulationâ€• IEEE Transactions on Power Electronics, 2004, 19, 567-567.	7.9	0

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163	An Innovative Digital Control Architecture for Low-Voltage, High-Current DCâ€“DC Converters With Tight Voltage Regulation. IEEE Transactions on Power Electronics, 2004, 19, 210-218.	7.9	154
164	Evolution and prospects for single-photon avalanche diodes and quenching circuits. Journal of Modern Optics, 2004, 51, 1267-1288.	1.3	257
165	MINIATURE MODULES FOR SINGLE-PHOTON DETECTION. , 2004, , .		0
166	Silicon planar technology for single-photon optical detectors. , 2004, , .		9
167	Evolution and prospects for single-photon avalanche diodes and quenching circuits. Journal of Modern Optics, 2004, 51, 1267-1288.	1.3	23
168	COMPACT ELECTROPHORESIS SYSTEM FOR GENETIC DIAGNOSTICS WITH ULTRASENSITIVE MICROSENSORS. , 2004, , .		0
169	Silicon planar technology for single-photon optical detectors. IEEE Transactions on Electron Devices, 2003, 50, 918-925.	3.0	82
170	Correction to "Silicon planar technology for single-photon optical detectors". IEEE Transactions on Electron Devices, 2003, 50, 1819-1819.	3.0	0
171	Monolithic active-quenching and active-reset circuit for single-photon avalanche detectors. IEEE Journal of Solid-State Circuits, 2003, 38, 1298-1301.	5.4	103
172	High-rate quantum key distribution at short wavelength: Performance analysis and evaluation of silicon single photon avalanche diodes. Journal of Modern Optics, 2003, 50, 2251-2269.	1.3	20
173	MICROELECTRONIC ULTRASENSITIVE DETECTORS FOR CHIP ELECTROPHORESIS MICROSYSTEMS. , 2002, , .		1
174	Monolithic dual-detector for photon-correlation spectroscopy with wide dynamic range and optical 70-ps resolution. IEEE Journal of Quantum Electronics, 2001, 37, 1588-1593.	1.9	7
175	Silicon pâ€“n junctions biased above breakdown used as monitors of carrier lifetime. Materials Science in Semiconductor Processing, 2001, 4, 159-161.	4.0	1
176	Ultra Low-Level Ion Implantation Damage Detected by p-n Junctions Biased above Breakdown. Solid State Phenomena, 2001, 82-84, 431-440.	0.3	0
177	A probe detector for defectivity assessment in p-n junctions. IEEE Transactions on Electron Devices, 2000, 47, 609-616.	3.0	10
178	High-sensitivity photodetectors with on-chip pinhole for laser scanning microscopy. IEEE Transactions on Electron Devices, 2000, 47, 1472-1476.	3.0	2
179	An integrated active-quenching circuit for single-photon avalanche diodes. IEEE Transactions on Instrumentation and Measurement, 2000, 49, 1167-1175.	4.7	57
180	Avalanche detector with ultraclean response for time-resolved photon counting. IEEE Journal of Quantum Electronics, 1998, 34, 817-821.	1.9	38

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181	STRAP for the VLT instruments. , 1997, , .		4
182	<title>Single-photon avalanche detectors for fluorescence imaging applications</title>. , 1997, , .		1
183	<title>Single-photon avalanche detectors for low-light-level imaging</title>. , 1997, 3114, 333.		3
184	True constant fraction trigger circuit for picosecond photon-timing with ultrafast microchannel plate photomultipliers. Review of Scientific Instruments, 1997, 68, 2228-2237.	1.3	10
185	Avalanche photodiodes and quenching circuits for single-photon detection. Applied Optics, 1996, 35, 1956.	2.1	850
186	A VLSI-compatible high-speed silicon photodetector for optical data link applications. IEEE Transactions on Electron Devices, 1996, 43, 1054-1060.	3.0	84
187	Compact active quenching circuit for fast photon counting with avalanche photodiodes. Review of Scientific Instruments, 1996, 67, 3440-3448.	1.3	76
188	Performance optimization of active quenching circuits for picosecond timing with single photon avalanche diodes. Review of Scientific Instruments, 1995, 66, 4289-4295.	1.3	13
189	<title>Novel avalanche photodiode for adaptive optics</title>. , 1994, 2201, 650.		3
190	Recent advances in the detection of optical photons with silicon photodiodes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 326, 290-294.	1.6	33
191	Ultrafast single photon avalanche diodes without slow tails in the pulse response. IEEE Transactions on Electron Devices, 1993, 40, 2145.	3.0	5
192	Single-photon avalanche diode with ultrafast pulse response free from slow tails. IEEE Electron Device Letters, 1993, 14, 360-362.	3.9	35
193	Constantâ€fraction circuits for picosecond photon timing with microchannel plate photomultipliers. Review of Scientific Instruments, 1993, 64, 118-124.	1.3	12
194	Propagating avalanche position-sensitive photon detector with resolution in the micrometer and picosecond range. IEEE Electron Device Letters, 1992, 13, 35-37.	3.9	2
195	All-silicon avalanche photodiode sensitive at 1.3 mu m with picosecond time resolution. IEEE Journal of Quantum Electronics, 1992, 28, 2678-2681.	1.9	21
196	Optimum amplification of microchannelâ€plate photomultiplier pulses for picosecond photon timing. Review of Scientific Instruments, 1991, 62, 2596-2601.	1.3	17
197	(PS)2: a new semiconductor device for positron-sensitive picosecond detection of single optical photons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1991, 310, 184-188.	1.6	4
198	Improving the performance of commercially available Geigerâ€mode avalanche photodiodes. Review of Scientific Instruments, 1991, 62, 163-167.	1.3	28

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