

Franco Zappa

List of Publications by Year in descending order

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all docs

233
docs citations

233
times ranked

3340
citing authors

#	ARTICLE	IF	CITATIONS
1	Range-Finding SPAD Array With Smart Laser-Spot Tracking and TDC Sharing for Background Suppression. IEEE Open Journal of the Solid-State Circuits Society, 2022, 2, 26-37.	2.0	8
2	Multi-Channel SPAD Chip for Silicon Photonics With Multi-Photon Coincidence Detection. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-7.	1.9	6
3	Multi-Channel FPGA Time-to-Digital Converter With 10 ps Bin and 40 ps FWHM. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-9.	2.4	13
4	Single-Shot Pulsed-LiDAR SPAD Sensor with on-chip Peak Detection for Background Rejection. IEEE Journal of Selected Topics in Quantum Electronics, 2022, 28, 1-10.	1.9	5
5	Monitoring the motor cortex hemodynamic response function in freely moving walking subjects: a time-domain fNIRS pilot study. Neurophotonics, 2021, 8, 015006.	1.7	8
6	Spot Tracking and TDC Sharing in SPAD Arrays for TOF LiDAR. Sensors, 2021, 21, 2936.	2.1	9
7	Single Photon Avalanche Diode Arrays for Quantum Imaging and Microscopy. Advanced Quantum Technologies, 2021, 4, 2100005.	1.8	25
8	Statistical Modelling of SPADs for Time-of-Flight LiDAR. Sensors, 2021, 21, 4481.	2.1	19
9	SPADs and SiPMs Arrays for Long-Range High-Speed Light Detection and Ranging (LiDAR). Sensors, 2021, 21, 3839.	2.1	83
10	Linear SPAD array single- and multiple-photon coincidence- based Quantum Random Number Generator. , 2021, , .		0
11	Fast-gated digital silicon photomultiplier maximizes light harvesting and depth sensitivity in time-domain diffuse optics. , 2021, , .		0
12	Large-Area, Fast-Gated Digital SiPM With Integrated TDC for Portable and Wearable Time-Domain NIRS. IEEE Journal of Solid-State Circuits, 2020, 55, 3097-3111.	3.5	21
13	High Detection Rate Fast-Gated CMOS Single-Photon Avalanche Diode Module. IEEE Photonics Journal, 2020, 12, 1-12.	1.0	6
14	Biometric Signals Estimation Using Single Photon Camera and Deep Learning. Sensors, 2020, 20, 6102.	2.1	7
15	Real-time multispectral fluorescence lifetime imaging using Single Photon Avalanche Diode arrays. Scientific Reports, 2020, 10, 8116.	1.6	24
16	Single-Photon Detectors Modeling and Selection Criteria for High-Background LiDAR. IEEE Sensors Journal, 2020, 20, 7021-7032.	2.4	19
17	High concentration factor diffractive microlenses integrated with CMOS single-photon avalanche diode detector arrays for fill-factor improvement. Applied Optics, 2020, 59, 4488.	0.9	19
18	Wearable and wireless time-domain near-infrared spectroscopy system for brain and muscle hemodynamic monitoring. Biomedical Optics Express, 2020, 11, 5934.	1.5	31

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19	SPAD-based asynchronous-readout array detectors for image-scanning microscopy. <i>Optica</i> , 2020, 7, 755.	4.8	37
20	Microelectronic 3D Imaging and Neuromorphic Recognition for Autonomous UAVs. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2020, , 185-194.	0.2	2
21	Multispectral Depth-Resolved Fluorescence Lifetime Spectroscopy Using SPAD Array Detectors and Fiber Probes. <i>Sensors</i> , 2019, 19, 2678.	2.1	6
22	Gated SPAD Arrays for Single-Photon Time-Resolved Imaging and Spectroscopy. <i>IEEE Photonics Journal</i> , 2019, 11, 1-10.	1.0	13
23	3D RGB Non-Line-Of-Sight single-pixel imaging. , 2019, , .		5
24	Time-gated SPAD camera with reconfigurable macropixels for LIDAR applications. , 2019, , .		2
25	Design of a 16 x 16 fast-gated SPAD imager with 16 integrated shared picosecond TDCs for non-line-of-sight imaging. , 2019, , .		2
26	A 20 A Sub-Nanosecond Integrated CMOS Laser Diode Driver for High Repetition Rate SPAD-Based Direct Time-of-Flight Measurements. , 2018, , .		3
27	0.16 μm^2 BCD Silicon Photomultipliers with Sharp Timing Response and Reduced Correlated Noise. <i>Sensors</i> , 2018, 18, 3763.	2.1	4
28	SPADs and TDCs for photon-counting, timing and gated-imaging at 30 ps resolution and 60% efficiency. , 2018, , .		2
29	Single-Photon Avalanche Diodes in a 0.16 μm BCD Technology With Sharp Timing Response and Red-Enhanced Sensitivity. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2018, 24, 1-9.	1.9	73
30	Time-gated CMOS SPAD array in 0.16 μm BCD with shared timing electronics and background light rejection for LIDAR applications. , 2018, , .		1
31	0.16 μm BCD single-photon avalanche diode with 30 ps timing jitter, high detection efficiency and low noise. , 2018, , .		2
32	Quantum weak-interaction-based measurement: from sequential weak measurement to protective measurement. , 2018, , .		0
33	Time-resolved CMOS SPAD arrays: architectures, applications and perspectives. , 2017, , .		2
34	A Compact Two-Wavelength Time-Domain NIRS System Based on SiPM and Pulsed Diode Lasers. <i>IEEE Photonics Journal</i> , 2017, 9, 1-14.	1.0	42
35	Compact dual-wavelength system for time-resolved diffuse optical spectroscopy. , 2017, , .		3
36	Photon-efficient imaging with a single-photon camera. <i>Nature Communications</i> , 2016, 7, 12046.	5.8	169

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37	Compact, Low-Power and Fully Reconfigurable 10 ps Resolution, 160 Range, Time-Resolved Single-Photon Counting System. IEEE Sensors Journal, 2016, 16, 3827-3833.	2.4	19
38	Charge Persistence in InGaAs/InP Single-Photon Avalanche Diodes. IEEE Journal of Quantum Electronics, 2016, 52, 1-7.	1.0	11
39	Automotive Three-Dimensional Vision Through a Single-Photon Counting SPAD Camera. IEEE Transactions on Intelligent Transportation Systems, 2016, 17, 782-795.	4.7	75
40	SPAD Figures of Merit for Photon-Counting, Photon-Timing, and Imaging Applications: A Review. IEEE Sensors Journal, 2016, 16, 3-12.	2.4	161
41	Eight-Channel 21 ps Precision $10\text{-}\mu\text{s}$ Range Time-to-Digital Converter Module. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 423-430.	2.4	7
42	Photon-efficient computational imaging with a single-photon camera. , 2016, , .		7
43	A new method utilizing novel single-photon avalanche diode arrays for multi-exposure laser speckle flowmetry. , 2016, , .		0
44	Short-gate techniques for high-speed photon counting with InGaAs/InP SPADs. , 2016, , .		0
45	Fill-factor improvement of Si CMOS single-photon avalanche diode detector arrays by integration of diffractive microlens arrays. Optics Express, 2015, 23, 33777.	1.7	36
46	Planar CMOS analog SiPMs: design, modeling, and characterization. Journal of Modern Optics, 2015, 62, 1693-1702.	0.6	14
47	SPICE Electrical Models and Simulations of Silicon Photomultipliers. IEEE Transactions on Nuclear Science, 2015, 62, 1950-1960.	1.2	24
48	High-Speed Quantum Random Number Generation Using CMOS Photon Counting Detectors. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 23-29.	1.9	32
49	Effects of time-gated detection in diffuse optical imaging at short source-detector separation. Journal Physics D: Applied Physics, 2015, 48, 045401.	1.3	35
50	Fully CMOS analog and digital SiPMs. Proceedings of SPIE, 2015, , .	0.8	0
51	High-Fill-Factor $60\text{imes } 1\text{S}$ SPAD Array With 60 Subnanosecond Integrated TDCs. IEEE Photonics Technology Letters, 2015, 27, 1261-1264.	1.3	28
52	High linearity SPAD and TDC array for TCSPC and 3D ranging applications. Proceedings of SPIE, 2015, , .	0.8	1
53	Dual channel $\epsilon\text{to}\epsilon$ digital converter module with 10 ps resolution and 320Âns full scale range. Electronics Letters, 2015, 51, 994-996.	0.5	4
54	High-speed multi-exposure laser speckle contrast imaging with a single-photon counting camera. Biomedical Optics Express, 2015, 6, 2865.	1.5	46

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55	Enhanced single-photon time-of-flight 3D ranging. Optics Express, 2015, 23, 24962.	1.7	52
56	Integrated Circuit for Subnanosecond Gating of InGaAs/InP SPAD. IEEE Journal of Quantum Electronics, 2015, 51, 1-7.	1.0	20
57	Analog SiPM in planar CMOS technology. , 2014, , .		7
58	High-throughput gated photon counter with two detection windows programmable down to 70 ps width. Review of Scientific Instruments, 2014, 85, 013107.	0.6	7
59	Low-noise CMOS SPAD arrays with in-pixel time-to-digital converters. , 2014, , .		2
60	CMOS Imager With 1024 SPADs and TDCs for Single-Photon Timing and 3-D Time-of-Flight. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 364-373.	1.9	198
61	100 000 Frames/s 64 Å— 32 Single-Photon Detector Array for 2-D Imaging and 3-D Ranging. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 354-363.	1.9	144
62	A Single-Photon Avalanche Camera for Fluorescence Lifetime Imaging Microscopy and Correlation Spectroscopy. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 344-353.	1.9	45
63	CMOS SPADs with up to 500 μm diameter and 55% detection efficiency at 420 nm. Journal of Modern Optics, 2014, 61, 102-115.	0.6	77
64	Fast Sensing and Quenching of CMOS SPADs for Minimal Afterpulsing Effects. IEEE Photonics Technology Letters, 2013, 25, 776-779.	1.3	93
65	Avalanche Current Waveform Estimated From Electroluminescence in InGaAs/InP SPADs. IEEE Photonics Technology Letters, 2013, 25, 1778-1780.	1.3	10
66	MiSPIA: microelectronic single-photon 3D imaging arrays for low-light high-speed safety and security applications. , 2013, , .		10
67	Growths and diffusions for InGaAs/InP single-photon avalanche diodes. Sensors and Actuators A: Physical, 2013, 201, 207-213.	2.0	10
68	Dark Count Rate Dependence on Bias Voltage During Gate-OFF in InGaAs/InP Single-Photon Avalanche Diodes. IEEE Photonics Technology Letters, 2013, 25, 1832-1834.	1.3	5
69	A High-Linearity, 17 ps Precision Time-to-Digital Converter Based on a Single-Stage Vernier Delay Loop Fine Interpolation. IEEE Transactions on Circuits and Systems I: Regular Papers, 2013, 60, 557-569.	3.5	143
70	Fast Active Quenching Circuit for Reducing Avalanche Charge and Afterpulsing in InGaAs/InP Single-Photon Avalanche Diode. IEEE Journal of Quantum Electronics, 2013, 49, 563-569.	1.0	29
71	Single-photon pulsed-light indirect time-of-flight 3D ranging. Optics Express, 2013, 21, 5086.	1.7	32
72	Large-area CMOS SPADs with very low dark counting rate. Proceedings of SPIE, 2013, , .	0.8	6

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73	Low afterpulsing and narrow timing response InGaAs/InP Single-Photon Avalanche Diode. Proceedings of SPIE, 2013, , .	0.8	0
74	Development of new photon-counting detectors for single-molecule fluorescence microscopy. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20120035.	1.8	100
75	Design Criteria for InGaAs/InP Single-Photon Avalanche Diode. IEEE Photonics Journal, 2013, 5, 6800209-6800209.	1.0	47
76	Low-noise low-jitter 32-pixels CMOS single-photon avalanche diodes array for single-photon counting from 300 nm to 900 nm. Review of Scientific Instruments, 2013, 84, 123112.	0.6	22
77	MiSPiA: microelectronic single-photon 3D imaging arrays for low-light high-speed safety and security applications. , 2013, , .		7
78	In-vivo optical spectroscopy in the time-domain beyond 1100 nm. , 2013, , .		1
79	Time-resolved optical spectrometer based on a monolithic array of high-precision TDCs and SPADs. , 2013, , .		0
80	Indirect time-of-flight 3D ranging based on SPADs. Proceedings of SPIE, 2012, , .	0.8	7
81	Single-fiber diffuse optical time-of-flight spectroscopy. Optics Letters, 2012, 37, 2877.	1.7	36
82	Non-contact time-resolved diffuse reflectance imaging at null source-detector separation. Optics Express, 2012, 20, 283.	1.7	46
83	10 ps resolution, 160 ns full scale range and less than 1.5% differential non-linearity time-to-digital converter module for high performance timing measurements. Review of Scientific Instruments, 2012, 83, 074703.	0.6	15
84	32 channels SPAD array for single photon timing applications. , 2012, , .		0
85	Single-photon detectors for practical quantum cryptography. Proceedings of SPIE, 2012, , .	0.8	4
86	SPAD imagers for remote sensing at the single-photon level. , 2012, , .		9
87	2D simulation for the impact of edge effects on the performance of planar InGaAs/InP SPADs. Proceedings of SPIE, 2012, , .	0.8	5
88	Time-Resolved Diffuse Optical Spectroscopy up to 1700 nm by Means of a Time-Gated InGaAs/InP Single-Photon Avalanche Diode. Applied Spectroscopy, 2012, 66, 944-950.	1.2	48
89	Fast-gated single-photon detection module with 200 ps transitions running up to 50 MHz with 30 ps resolution. , 2012, , .		1
90	InGaAs/InP single-photon counting module running up to 133 MHz. Proceedings of SPIE, 2012, , .	0.8	1

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91	SPAD Smart Pixel for Time-of-Flight and Time-Correlated Single-Photon Counting Measurements. IEEE Photonics Journal, 2012, 4, 795-804.	1.0	77
92	InGaAs/InP Single-Photon Avalanche Diode With Reduced Afterpulsing and Sharp Timing Response With 30 ps Tail. IEEE Journal of Quantum Electronics, 2012, 48, 1227-1232.	1.0	42
93	Afterpulse-like noise limits dynamic range in time-gated applications of thin-junction silicon single-photon avalanche diode. Applied Physics Letters, 2012, 100, 241111.	1.5	27
94	InGaAs/InP SPAD with improved structure for sharp timing response. , 2012, , .		0
95	Low-noise and large-area CMOS SPADs with timing response free from slow tails. , 2012, , .		39
96	InGaAs/InP Single-Photon Avalanche Diode with narrow photon timing response. , 2012, , .		0
97	3D sensor for indirect ranging with pulsed laser source. Proceedings of SPIE, 2012, , .	0.8	1
98	Low-power 20-meter 3D ranging SPAD camera based on continuous-wave indirect time-of-flight. , 2012, , .		3
99	Integrated simulator for single photon avalanche diodes. , 2011, , .		5
100	Photonics for Life. IEEE Pulse, 2011, 2, 16-23.	0.1	3
101	Advances in InGaAsP-based avalanche diode single photon detectors. Journal of Modern Optics, 2011, 58, 174-200.	0.6	170
102	Fast-gated single-photon counting technique widens dynamic range and speeds up acquisition time in time-resolved measurements. Optics Express, 2011, 19, 10735.	1.7	89
103	Advanced single photon counting instrumentation for SPADs. , 2011, , .		2
104	3D ranging with a single-photon imaging array. , 2011, , .		2
105	Compact detection module based on InGaAs/InP SPADs for near-infrared single-photon counting up to 1.7 μ m. , 2011, , .		0
106	Towards arrays of smart-pixels for time-correlated single photon counting and time of flight application. , 2011, , .		0
107	Smart-pixel for 3D ranging imagers based on single-photon avalanche diode and time-to-digital converter. Proceedings of SPIE, 2011, , .	0.8	7
108	Linear arrays of single-photon detectors for photon counting and timing. , 2011, , .		1

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109	Monolithic single-photon detectors and time-to-digital converters for picoseconds time-of-flight ranging. Proceedings of SPIE, 2011, , .	0.8	1
110	Time-domain diffuse optical spectroscopy up to 1700 nm using an InGaAs/InP single-photon avalanche diode. Proceedings of SPIE, 2011, , .	0.8	1
111	Time-resolved diffuse optical spectroscopy up to 1700 nm using a time-gated InGaAs/InP single-photon avalanche diode. Proceedings of SPIE, 2011, , .	0.8	2
112	A 32Å–32 photon counting camera. Optik & Photonik, 2011, 6, 43-46.	0.3	0
113	Experimental characterization of afterpulsing and timing jitter of InGaAs/InP SPAD. Proceedings of SPIE, 2011, , .	0.8	4
114	Modeling of afterpulsing in single-photon avalanche diodes. Proceedings of SPIE, 2011, , .	0.8	10
115	1024 pixels single photon imaging array for 3D ranging. Proceedings of SPIE, 2011, , .	0.8	0
116	Ultra high-throughput single molecule spectroscopy with a 1024 pixel SPAD. Proceedings of SPIE, 2011, 7905, .	0.8	27
117	New photon-counting detectors for single-molecule fluorescence spectroscopy and imaging. , 2011, 8033, 803316.		14
118	Imaging Beyond the Rayleigh Bound. , 2011, , .		0
119	Fast-gated single-photon detectors boost dynamic range in NIR spectroscopy. Proceedings of SPIE, 2010, , .	0.8	0
120	Functional diffuse reflectance spectroscopy at small source-detector distances based on fast-gated single-photon avalanche diodes. , 2010, , .		1
121	Two-Dimensional SPAD Imaging Camera for Photon Counting. IEEE Photonics Journal, 2010, 2, 759-774.	1.0	96
122	Fast-Gated Single-Photon Avalanche Diode for Wide Dynamic Range Near Infrared Spectroscopy. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 1023-1030.	1.9	81
123	Smart-pixel with SPAD detector and time-to-digital converter for time-correlated single photon counting. , 2010, , .		9
124	Single-photon 3D ranging based on SPAD imagers. , 2010, , .		2
125	High-throughput single-molecule fluorescence spectroscopy using parallel detection. , 2010, 7608, .		12
126	Single-photon avalanche diode arrays and CMOS microelectronics for counting, timing, and imaging quantum events. Proceedings of SPIE, 2010, , .	0.8	8

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127	Single-photon camera for high-sensitivity high-speed applications. Proceedings of SPIE, 2010, , .	0.8	8
128	High Throughput Single-Molecule Spectroscopy with Highly Parallel Excitation and Detection. Biophysical Journal, 2010, 98, 623a.	0.2	0
129	InGaAs/InP SPADs for near-infrared applications: device operating conditions and dedicated electronics. Proceedings of SPIE, 2010, , .	0.8	4
130	Sub-Rayleigh Imaging via $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:mi}> N \langle / \text{mml:mi}> \langle / \text{mml:math}>$ -Photon Detection. Physical Review Letters, 2010, 105, 163602.	2.9	46
131	SPAD arrays for parallel photon counting and timing. , 2010, , .		7
132	Characterization of InGaAs/InP single-photon avalanche diodes. , 2010, , .		0
133	Single photon counting detectors in action: Retrospect and prospect. , 2010, , .		3
134	Ultra-Fast Time-Gated SPAD for Multi-Wavelength Wide Dynamic Range Spectroscopy. , 2010, , .		0
135	The Spread Matrix: a method to predict the effect of a non time-invariant measurement system. , 2010, , .		0
136	Sub-Rayleigh Imaging via N-Photon Detection. , 2010, , .		2
137	One-chip quantum random number generator. Proceedings of SPIE, 2009, , .	0.8	1
138	InGaAs/InP single-photon avalanche diodes show low dark counts and require moderate cooling. , 2009, , .		15
139	Monolithic array of 32 SPAD pixels for single-photon imaging at high frame rates. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 610, 24-27.	0.7	7
140	SPICE modeling of single photon avalanche diodes. Sensors and Actuators A: Physical, 2009, 153, 197-204.	2.0	74
141	Single-photon avalanche diodes for the near-infrared range: detector and circuit issues. Journal of Modern Optics, 2009, 56, 299-308.	0.6	64
142	High-performance silicon single-photon avalanche diode array. Proceedings of SPIE, 2009, , .	0.8	6
143	Brain functional imaging at small source-detector distances based on fast-gated single-photon avalanche diodes. Proceedings of SPIE, 2009, , .	0.8	1
144	Fast-gated single-photon avalanche diode for extremely wide dynamic-range applications. Proceedings of SPIE, 2009, , .	0.8	11

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145	SPAD detection head with 32 fully-parallel channels for time-tagging single-photons at 31¼s. , 2009, , .		0
146	Fast single-photon imager acquires 1024 pixels at 100 kframe/s. , 2009, , .		15
147	All-Silicon 1.55-¼m High-Resolution Photon Counting and Timing. IEEE Photonics Technology Letters, 2008, 20, 1956-1958.	1.3	5
148	Modeling and Probing Hot-Carrier Luminescence From MOSFETs. IEEE Electron Device Letters, 2008, 29, 350-352.	2.2	4
149	Variable-load quenching circuit for single-photon avalanche diodes. Optics Express, 2008, 16, 2232.	1.7	78
150	A Packaging Solution for Optically Testing Wire-Bonded Chips. IEEE Transactions on Advanced Packaging, 2008, 31, 490-495.	1.7	1
151	100 kframe/s 8 bit monolithic single-photon imagers. , 2008, , .		5
152	Time-Resolved Diffuse Reflectance Using Small Source-Detector Separation and Fast Single-Photon Gating. Physical Review Letters, 2008, 100, 138101.	2.9	119
153	High-rate photon counting and picosecond timing with silicon-SPAD based compact detector modules. Journal of Modern Optics, 2007, 54, 225-237.	0.6	34
154	60-Channel 10 \$mu\$s Time-Resolution Counter Array for Long Term Continuous Event Counting. IEEE Transactions on Nuclear Science, 2007, 54, 549-554.	1.2	1
155	InGaAs SPAD and electronics for low time jitter and low noise. , 2007, , .		18
156	Germanium and InGaAs/InP SPADs for single-photon detection in the near-infrared. Proceedings of SPIE, 2007, , .	0.8	9
157	Silicon single photon avalanche diodes: situation and prospect. , 2007, , .		1
158	Time-gated single-photon avalanche diode for time-resolved diffuse reflectance at small source-detector separation. Proceedings of SPIE, 2007, , .	0.8	0
159	Monolithic quad-cells for single-photon timing and tracking. , 2007, , .		0
160	Time-resolved diffuse reflectance at small source-detector separation using a time-gated single-photon avalanche diode. , 2007, , .		0
161	Fully-integrated CMOS single photon counter. Optics Express, 2007, 15, 2873.	1.7	42
162	Single photon avalanche diodes (SPADs) for 1.5-¼m photon counting applications. Journal of Modern Optics, 2007, 54, 283-304.	0.6	156

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163	Photon counting arrays for astrophysics. Journal of Modern Optics, 2007, 54, 163-189.	0.6	16
164	Single-Photon Avalanche Diode Model for Circuit Simulations. IEEE Photonics Technology Letters, 2007, 19, 1922-1924.	1.3	67
165	Progress in Silicon Single-Photon Avalanche Diodes. IEEE Journal of Selected Topics in Quantum Electronics, 2007, 13, 852-862.	1.9	237
166	Principles and features of single-photon avalanche diode arrays. Sensors and Actuators A: Physical, 2007, 140, 103-112.	2.0	250
167	Electronics for single photon avalanche diode arrays. Sensors and Actuators A: Physical, 2007, 140, 113-122.	2.0	69
168	A view on progress of silicon single-photon avalanche diodes and quenching circuits. , 2006, 6372, 123.		7
169	Hot-Carrier Photoemission in Scaled CMOS Technologies: A Challenge for Emission Based Testing and Diagnostics. , 2006, , .		19
170	InGaAs/InP Single Photon Avalanche Diode Design and Characterization. Solid-State Device Research Conference, 2008 ESSDERC 2008 38th European, 2006, , .	0.0	5
171	Gated operation of InGaAs SPADs with active quenching and fast timing circuits. , 2006, 6372, 191.		5
172	Spada: An Array of Spad Detectors For Astrophysical Applications. Experimental Astronomy, 2006, 19, 163-168.	1.6	2
173	Single-Photon Avalanche Diode Arrays for Fast Transients and Adaptive Optics. IEEE Transactions on Instrumentation and Measurement, 2006, 55, 365-374.	2.4	18
174	SPADA: An Array of SPAD Detectors for Astrophysical Applications. , 2006, , 455-460.		0
175	Innovative packaging technique for backside optical testing of wire-bonded chips. Microelectronics Reliability, 2005, 45, 1493-1498.	0.9	1
176	Complete single-photon counting and timing module in a microchip. Optics Letters, 2005, 30, 1327.	1.7	22
177	Single-photon imaging at 20,000 frames/s. Optics Letters, 2005, 30, 3024.	1.7	10
178	Photon-counting chip for avalanche detectors. IEEE Photonics Technology Letters, 2005, 17, 184-186.	1.3	15
179	SPADA: single-photon avalanche diode arrays. IEEE Photonics Technology Letters, 2005, 17, 657-659.	1.3	29
180	CMOS Circuit Testing via Time-Resolved Luminescence Measurements and Simulations. IEEE Transactions on Instrumentation and Measurement, 2004, 53, 163-169.	2.4	53

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181	Implementation of TRE systems into Emission Microscopes. Microelectronics Reliability, 2004, 44, 1529-1534.	0.9	5
182	Evolution and prospects for single-photon avalanche diodes and quenching circuits. Journal of Modern Optics, 2004, 51, 1267-1288.	0.6	257
183	MINIATURE MODULES FOR SINGLE-PHOTON DETECTION. , 2004, , .		0
184	Cone-effect-free adaptive optics laser guide star development for the ELTs. , 2004, , .		4
185	Silicon planar technology for single-photon optical detectors. , 2004, , .		9
186	Pushing technologies: single-photon avalanche diode arrays. , 2004, , .		13
187	LUMINESCENCE MEASUREMENTS FOR THE INVESTIGATION OF VLSI CIRCUITS DEFECTS. , 2004, , .		2
188	COMPACT ELECTROPHORESIS SYSTEM FOR GENETIC DIAGNOSTICS WITH ULTRASENSITIVE MICROSENSORS. , 2004, , .		0
189	Silicon planar technology for single-photon optical detectors. IEEE Transactions on Electron Devices, 2003, 50, 918-925.	1.6	82
190	Correction to "Silicon planar technology for single-photon optical detectors". IEEE Transactions on Electron Devices, 2003, 50, 1819-1819.	1.6	0
191	Backside Flip-Chip testing by means of high-bandwidth luminescence detection. Microelectronics Reliability, 2003, 43, 1669-1674.	0.9	3
192	Monolithic active-quenching and active-reset circuit for single-photon avalanche detectors. IEEE Journal of Solid-State Circuits, 2003, 38, 1298-1301.	3.5	103
193	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.	0.6	20
194	MICROELECTRONIC ULTRASENSITIVE DETECTORS FOR CHIP ELECTROPHORESIS MICROSYSTEMS. , 2002, , .		1
195	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.	1.0	7
196	Tools for contactless testing and simulation of CMOS circuits. Microelectronics Reliability, 2001, 41, 1801-1808.	0.9	4
197	Silicon p-n junctions biased above breakdown used as monitors of carrier lifetime. Materials Science in Semiconductor Processing, 2001, 4, 159-161.	1.9	1
198	High-speed CMOS circuit testing by 50 ps time-resolved luminescence measurements. IEEE Transactions on Electron Devices, 2001, 48, 2830-2835.	1.6	42

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