Patrick Pittet

List of Publications by Year
in descending order

44 papers	263 citations	1040056 9 h-index	996975 15 g-index
44 all docs	44 docs citations	44 times ranked	273 citing authors

#	Article	IF	Citations
1	Modeling of the Buried Multiple Junction (BMJ) Detector in Reach-Through (RT) Conditions. IEEE Sensors Journal, 2021, 21, 9723-9730.	4.7	0
2	Indirect avalanche event detection of Single Photon Avalanche Diode implemented in CMOS FDSOI technology. Solid-State Electronics, 2020, 163, 107636.	1.4	6
3	Analytic modeling of breakdown voltage shift in the CMOS buried multiple junction detector. Solid-State Electronics, 2020, 164, 107682.	1.4	1
4	Novel concept of a low-power high-volume microfluidic actuator: theory of operation and experimental characterization. Sensors and Actuators A: Physical, 2019, 291, 13-22.	4.1	5
5	Geometric tomography for measuring rectangular radiotherapy fields from six projections. , 2019, , .		2
6	Modeling of the Buried Multiple Junction (BMJ) Detector in Reach-Through (RT) Condition. , 2019, , .		1
7	Fan-Beam Based Virtual Fluoroscopy for Navigated Catheterization in Interventional Radiology. Studies in Health Technology and Informatics, 2019, 264, 74-78.	0.3	1
8	Breakdown Voltage Shift of CMOS Buried Quad Junction (BQJ) Detector. , 2018, , .		1
9	Gynecological applicator instrumented with GaN dosimetric probes for HDR brachytherapy. Radiation Measurements, 2017, 106, 563-568.	1.4	1
10	Dosimetric Probe Based on Small-thickness GaN Transducer. Procedia Engineering, 2016, 168, 753-756.	1.2	1
11	A CMOS Buried Quad p-n Junction Photodetector Model. IEEE Sensors Journal, 2016, 16, 1611-1620.	4.7	14
12	CMOS buried multi-junction (BMJ) detector for bio-chemical analysis. , 2015, , .		0
13	Buried Quad Junction Photodetector Signal Processing for Multi-Label Fluorescence Detection. Sensor Letters, 2015, 13, 430-434.	0.4	0
14	Self-amplified CMOS image sensor using a current-mode readout circuit. , 2014, , .		1
15	Bi-Crystal Compensation Method for the Over-Response of Solid-State Dosimetry. Key Engineering Materials, 2014, 605, 540-543.	0.4	1
16	BQJ Photodetector Signal Processing. Key Engineering Materials, 2014, 605, 91-94.	0.4	1
17	CMOS BQJ detector chip with integrated charge-amplifiers for fluorescence measurements. Sensors and Actuators B: Chemical, 2014, 190, 288-294.	7.8	9
18	Implementation and validation of a fluence pencil kernels model for GaN-based dosimetry in photon beam radiotherapy. Physics in Medicine and Biology, 2013, 58, 6701-6712.	3.0	5

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19	CMOS buried Quad p-n junction photodetector for multi-wavelength analysis. Optics Express, 2012, 20, 2053.	3.4	31
20	A new method to enhance frequency operation of CMOS ring oscillators. International Journal of Electronics, 2012, 99, 351-360.	1.4	6
21	Low power, high resolution CMOS variable-delay element. AEU - International Journal of Electronics and Communications, 2012, 66, 455-458.	2.9	9
22	Nanocomposite Carbonâ€PDMS Material for Chipâ€Based Electrochemical Detection. Electroanalysis, 2011, 23, 321-324.	2.9	22
23	An alternative to source degeneration of CMOS differential pair. Analog Integrated Circuits and Signal Processing, 2010, 62, 415-422.	1.4	1
24	A charge-sensitive amplifier associated with APD or PMT for 511keV, photon-pair detection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 613, 134-140.	1.6	14
25	Silicon Nanowire Arrays Combining Nanosphere Lithography and Metal-Assisted Etching. ECS Transactions, 2010, 33, 15-22.	0.5	1
26	CMOS ring oscillators with enhanced frequency operation. , 2010, , .		0
27	Combining microfluidics and electrochemical detection. , 2009, 2009, 4144-6.		0
28	PL characterization of GaN scintillator for radioluminescence-based dosimetry. Optical Materials, 2009, 31, 1421-1424.	3.6	34
29	Implantable real-time dosimetric probe using GaN as scintillation material. Sensors and Actuators A: Physical, 2009, 151, 29-34.	4.1	24
30	On the design of a low noise readout circuit for in-vivo dosimeter. , 2009, , .		1
31	Amperometric quantification based on serial dilution microfluidic systems. Analyst, The, 2009, 134, 472-477.	3.5	5
32	A novel low-cost approach of implementing electrochemiluminescence detection for microfluidic analytical systems. Materials Science and Engineering C, 2008, 28, 891-895.	7.3	13
33	PCB Technology-Based Electrochemiluminescence Microfluidic Device for Low-Cost Portable Analytical Systems. IEEE Sensors Journal, 2008, 8, 565-571.	4.7	21
34	Implementation of Electrochemiluminescence Microanalysis in PCB Technology. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2944-7.	0.5	0
35	PCB-based integration of electrochemiluminescence detection for microfluidic systems. Analyst, The, 2007, 132, 409.	3.5	9
36	Noise Modeling For Charge Amplification and Sampling. , 2006, , .		1

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37	Investigation of the Mixing Efficiency of a Chaotic Micromixer Using Thermal Lens Spectrometry. Applied Spectroscopy, 2006, 60, 564-567.	2.2	8
38	CMOS absorbance detection system for capillary electrophoresis. Materials Science and Engineering C, 2006, 26, 282-289.	7.3	9
39	Using fiber optic probe and CMOS BDJ detector for microarray spot scanning. , 2004, , .		2
40	CMOS optical detector system for capillary fluorescence measurements. , 2004, , .		0
41	CMOS photodetection system with variable-time synchronous detection. , 2004, 5251, 162.		0
42	A VHDL-AMS package for microsystems polychromatic optical modeling. , 2004, , .		1
43	The Clinical Use of Multi-modal Resources (2D/3D/Statistics) for Robot Assisted Functional Neurosurgery. Lecture Notes in Computer Science, 2001, , 1421-1423.	1.3	0
44	Failure Detection Method for GaN-Based Dosimetric Systems. Key Engineering Materials, 0, 644, 78-82.	0.4	1