

Patrick Pittet

List of Publications by Year in descending order

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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	PL characterization of GaN scintillator for radioluminescence-based dosimetry. <i>Optical Materials</i> , 2009, 31, 1421-1424.	3.6	34
2	CMOS buried Quad p-n junction photodetector for multi-wavelength analysis. <i>Optics Express</i> , 2012, 20, 2053.	3.4	31
3	Implantable real-time dosimetric probe using GaN as scintillation material. <i>Sensors and Actuators A: Physical</i> , 2009, 151, 29-34.	4.1	24
4	Nanocomposite Carbonâ€PDMS Material for Chipâ€Based Electrochemical Detection. <i>Electroanalysis</i> , 2011, 23, 321-324.	2.9	22
5	PCB Technology-Based Electrochemiluminescence Microfluidic Device for Low-Cost Portable Analytical Systems. <i>IEEE Sensors Journal</i> , 2008, 8, 565-571.	4.7	21
6	A charge-sensitive amplifier associated with APD or PMT for 511keV, photon-pair detection. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 613, 134-140.	1.6	14
7	A CMOS Buried Quad p-n Junction Photodetector Model. <i>IEEE Sensors Journal</i> , 2016, 16, 1611-1620.	4.7	14
8	A novel low-cost approach of implementing electrochemiluminescence detection for microfluidic analytical systems. <i>Materials Science and Engineering C</i> , 2008, 28, 891-895.	7.3	13
9	CMOS absorbance detection system for capillary electrophoresis. <i>Materials Science and Engineering C</i> , 2006, 26, 282-289.	7.3	9
10	PCB-based integration of electrochemiluminescence detection for microfluidic systems. <i>Analyst, The</i> , 2007, 132, 409.	3.5	9
11	Low power, high resolution CMOS variable-delay element. <i>AEU - International Journal of Electronics and Communications</i> , 2012, 66, 455-458.	2.9	9
12	CMOS BQJ detector chip with integrated charge-amplifiers for fluorescence measurements. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 288-294.	7.8	9
13	Investigation of the Mixing Efficiency of a Chaotic Micromixer Using Thermal Lens Spectrometry. <i>Applied Spectroscopy</i> , 2006, 60, 564-567.	2.2	8
14	A new method to enhance frequency operation of CMOS ring oscillators. <i>International Journal of Electronics</i> , 2012, 99, 351-360.	1.4	6
15	Indirect avalanche event detection of Single Photon Avalanche Diode implemented in CMOS FDSOI technology. <i>Solid-State Electronics</i> , 2020, 163, 107636.	1.4	6
16	Amperometric quantification based on serial dilution microfluidic systems. <i>Analyst, The</i> , 2009, 134, 472-477.	3.5	5
17	Implementation and validation of a fluence pencil kernels model for GaN-based dosimetry in photon beam radiotherapy. <i>Physics in Medicine and Biology</i> , 2013, 58, 6701-6712.	3.0	5
18	Novel concept of a low-power high-volume microfluidic actuator: theory of operation and experimental characterization. <i>Sensors and Actuators A: Physical</i> , 2019, 291, 13-22.	4.1	5

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19	Using fiber optic probe and CMOS BDI detector for microarray spot scanning. , 2004, , .		2
20	Geometric tomography for measuring rectangular radiotherapy fields from six projections. , 2019, , .		2
21	Noise Modeling For Charge Amplification and Sampling. , 2006, , .		1
22	On the design of a low noise readout circuit for in-vivo dosimeter. , 2009, , .		1
23	An alternative to source degeneration of CMOS differential pair. Analog Integrated Circuits and Signal Processing, 2010, 62, 415-422.	1.4	1
24	Silicon Nanowire Arrays Combining Nanosphere Lithography and Metal-Assisted Etching. ECS Transactions, 2010, 33, 15-22.	0.5	1
25	Self-amplified CMOS image sensor using a current-mode readout circuit. , 2014, , .		1
26	Bi-Crystal Compensation Method for the Over-Response of Solid-State Dosimetry. Key Engineering Materials, 2014, 605, 540-543.	0.4	1
27	BQJ Photodetector Signal Processing. Key Engineering Materials, 2014, 605, 91-94.	0.4	1
28	Failure Detection Method for GaN-Based Dosimetric Systems. Key Engineering Materials, 0, 644, 78-82.	0.4	1
29	Dosimetric Probe Based on Small-thickness GaN Transducer. Procedia Engineering, 2016, 168, 753-756.	1.2	1
30	Gynecological applicator instrumented with GaN dosimetric probes for HDR brachytherapy. Radiation Measurements, 2017, 106, 563-568.	1.4	1
31	Breakdown Voltage Shift of CMOS Buried Quad Junction (BQJ) Detector. , 2018, , .		1
32	Modeling of the Buried Multiple Junction (BMJ) Detector in Reach-Through (RT) Condition. , 2019, , .		1
33	Analytic modeling of breakdown voltage shift in the CMOS buried multiple junction detector. Solid-State Electronics, 2020, 164, 107682.	1.4	1
34	A VHDL-AMS package for microsystems polychromatic optical modeling. , 2004, , .		1
35	Fan-Beam Based Virtual Fluoroscopy for Navigated Catheterization in Interventional Radiology. Studies in Health Technology and Informatics, 2019, 264, 74-78.	0.3	1
36	CMOS optical detector system for capillary fluorescence measurements. , 2004, , .		0

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37	CMOS photodetection system with variable-time synchronous detection. , 2004, 5251, 162.		0
38	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
39	Combining microfluidics and electrochemical detection. , 2009, 2009, 4144-6.		0
40	CMOS ring oscillators with enhanced frequency operation. , 2010, , .		0
41	CMOS buried multi-junction (BMJ) detector for bio-chemical analysis. , 2015, , .		0
42	Modeling of the Buried Multiple Junction (BMJ) Detector in Reach-Through (RT) Conditions. IEEE Sensors Journal, 2021, 21, 9723-9730.	4.7	0
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	Buried Quad Junction Photodetector Signal Processing for Multi-Label Fluorescence Detection. Sensor Letters, 2015, 13, 430-434.	0.4	0