Sara Marcatili

List of Publications by Year in descending order

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566801 433756 1,151 50 15 31 citations h-index g-index papers 50 50 50 1295 citing authors docs citations times ranked all docs

#	Article	IF	CITATIONS
1	A review of the use and potential of the GATE Monte Carlo simulation code for radiation therapy and dosimetry applications. Medical Physics, 2014, 41, 064301.	1.6	332
2	Single photon timing resolution and detection efficiency of the IRST silicon photo-multipliers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 581, 461-464.	0.7	68
3	Characterization of a PET detector head based on continuous LYSO crystals and monolithic, 64-pixel silicon photomultiplier matrices. Physics in Medicine and Biology, 2010, 55, 7299-7315.	1.6	55
4	Development and validation of RAYDOSE: a Geant4-based application for molecular radiotherapy. Physics in Medicine and Biology, 2013, 58, 2491-2508.	1.6	52
5	Studies of silicon photomultipliers at cryogenic temperatures. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 628, 389-392.	0.7	50
6	Electrical Characterization of Silicon Photo-Multiplier Detectors for Optimal Front-End Design. , 2006, , .		48
7	Advantages and pitfalls of the silicon photomultiplier (SiPM) as photodetector for the next generation of PET scanners. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 617, 223-226.	0.7	40
8	Silicon Photomultipliers (SiPM) as novel photodetectors for PET. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 648, S232-S235.	0.7	38
9	Energy, Timing and Position Resolution Studies With 16-Pixel Silicon Photomultiplier Matrices for Small Animal PET. IEEE Transactions on Nuclear Science, 2009, 56, 2586-2593.	1.2	36
10	Development of the first prototypes of Silicon PhotoMultiplier (SiPM) at ITC-irst. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 572, 422-426.	0.7	33
11	Internal dosimetry with the Monte Carlo code GATE: validation using the ICRP/ICRU female reference computational model. Physics in Medicine and Biology, 2017, 62, 1885-1904.	1.6	27
12	Drugs That Modify Cholesterol Metabolism Alter the p38/JNK-Mediated Targeted and Nontargeted Response to Alpha and Auger Radioimmunotherapy. Clinical Cancer Research, 2019, 25, 4775-4790.	3.2	26
13	Novel Silicon Photomultipliers for PET Applications. IEEE Transactions on Nuclear Science, 2008, 55, 877-881.	1.2	25
14	Modelâ€based versus specific dosimetry in diagnostic context: Comparison of three dosimetric approaches. Medical Physics, 2015, 42, 1288-1296.	1.6	23
15	Preliminary results from a current mode CMOS front-end circuit for silicon photomultiplier detectors. , 2007, , .		22
16	Silicon photomultipliers and SiPM matrices as photodetectors in nuclear medicine., 2007,,.		21
17	Energy and Timing Resolution Studies With Silicon Photomultipliers (SiPMs) and 4-Pixel SiPM Matrices for PET. IEEE Transactions on Nuclear Science, 2009, 56, 543-548.	1.2	21
18	Silicon photomultiplier performance tests in magnetic resonance pulsed fields. , 2007, , .		18

#	Article	IF	CITATIONS
19	First results in the application of silicon photomultiplier matrices to small animal PET. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 610, 196-199.	0.7	17
20	Ultra-fast prompt gamma detection in single proton counting regime for range monitoring in particle therapy. Physics in Medicine and Biology, 2020, 65, 245033.	1.6	17
21	Advances in position-sensitive photodetectors for PET applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, 319-322.	0.7	15
22	Realistic multi-cellular dosimetry for ¹⁷⁷ Lu-labelled antibodies: model and application. Physics in Medicine and Biology, 2016, 61, 6935-6952.	1.6	15
23	The therapeutic effectiveness of 177Lu-lilotomab in B-cell non-Hodgkin lymphoma involves modulation of G2/M cell cycle arrest. Leukemia, 2020, 34, 1315-1328.	3.3	12
24	Monolithic 64-channel SiPM matrices for small animal PET. , 2009, , .		11
25	A large area diamond-based beam tagging hodoscope for ion therapy monitoring. EPJ Web of Conferences, 2018, 170, 09005.	0.1	11
26	Development and characterization of a modular acquisition system for a 4D PET block detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 659, 494-498.	0.7	10
27	A Study of the Radiation Tolerance of CVD Diamond to 70 MeV Protons, Fast Neutrons and 200 MeV Pions. Sensors, 2020, 20, 6648.	2.1	10
28	A time-of-flight-based reconstruction for real-time prompt-gamma imaging in proton therapy. Physics in Medicine and Biology, 2021, 66, 135003.	1.6	10
29	Timing performances of a data acquisition system for Time of Flight PET. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 695, 210-212.	0.7	9
30	Dosimetry for nonuniform activity distributions: A method for the calculation of 3D absorbedâ€dose distribution without the use of voxel ⟨i⟩S⟨ i⟩â€values, point kernels, or Monte Carlo simulations. Medical Physics, 2013, 40, 042505.	1.6	8
31	New results on the characterization of ITC-irst Silicon Photomultipliers. , 2006, , .		7
32	Characteristics of a prototype matrix of Silicon PhotoMultipliers (SiPM). Journal of Instrumentation, 2009, 4, P03016-P03016.	0.5	7
33	Evaluation of the first Silicon Photomultiplier matrices for a small animal PET scanner. , 2008, , .		6
34	Advanced radiation measurement techniques in diagnostic radiology and molecular imaging. Radiation Protection Dosimetry, 2008, 131, 136-142.	0.4	6
35	Characterization of a prototype matrix of Silicon PhotoMultipliers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 610, 101-104.	0.7	6
36	Characterization of Ca co-doped LSO:Ce scintillators coupled to SiPM for PET applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 628, 423-425.	0.7	6

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37	Influence of sub-nanosecond time of flight resolution for online range verification in proton therapy using the line-cone reconstruction in Compton imaging. Physics in Medicine and Biology, 2021, 66, 125012.	1.6	6
38	On the Role of Single Particle Irradiation and Fast Timing for Efficient Online-Control in Particle Therapy. Frontiers in Physics, 2020, 8, .	1.0	6
39	A 4D-PET block detector based on Silicon Photomultipliers. , 2010, , .		3
40	Multi-scale hybrid models for radiopharmaceutical dosimetry with Geant4. Physics in Medicine and Biology, 2014, 59, 7625-7641.	1.6	3
41	xmins:mml="nttp://www.w3.org/1998/Math/Math/ML" display="inline" id="d1e167" altimg="si5.svg"> <mml:mrow><mml:mi>γ</mml:mi><mml:mo linebreak="goodbreak" linebreakstyle="after">â^'</mml:mo><mml:mi>γ</mml:mi></mml:mrow> timing with LaBr <mmlamath <="" display="inline" id="d1e177" td="" xmlns:mml="http://www.w3.org/1998/Math/Math/Mt"><td>0.7</td><td>3</td></mmlamath>	0.7	3
42	Novel Silicon Photomultipliers for PET Application., 2006,,.		2
43	Comparison of different reconstruction methods for planar images in small gamma cameras. Journal of Instrumentation, 2011, 6, C01030-C01030.	0.5	2
44	A 100 ps TOF Detection System for On-Line Range-Monitoring in Hadrontherapy. , 2019, , .		2
45	X-ray beam induced current analysis of CVD diamond detectors in the perspective of a beam tagging hodoscope development for hadrontherapy on-line monitoring. Diamond and Related Materials, 2021, 112, 108236.	1.8	2
46	An FPGA based DAQ system for the readout of SiPM matrices in PET applications. , 2008, , .		1
47	Calibration and performances of a multichannel DAQ system for Silicon Photomultiplier (SiPM) matrices in PET applications., 2009,,.		1
48	Characterization and test of a data acquisition system for PET., 2011,,.		1
49	Proof of concept of an imaging system demonstrator for PET applications with SiPM. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 720, 67-69.	0.7	1
50	Production and characterization of large-size diamond detectors for particle tracking and medical applications. , $2018, \ldots$		0