Sara Marcatili

List of Publications by Year in descending order

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

#	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.	3.0	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.	1.6	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.	3.0	55
4	Development and validation of RAYDOSE: a Geant4-based application for molecular radiotherapy. Physics in Medicine and Biology, 2013, 58, 2491-2508.	3.0	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.	1.6	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.	1.6	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.	1.6	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.	2.0	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.	1.6	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.	3.0	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.	7.0	26
13	Novel Silicon Photomultipliers for PET Applications. IEEE Transactions on Nuclear Science, 2008, 55, 877-881.	2.0	25
14	Modelâ€based versus specific dosimetry in diagnostic context: Comparison of three dosimetric approaches. Medical Physics, 2015, 42, 1288-1296.	3.0	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.	2.0	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.	1.6	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.	3.0	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.	1.6	15
22	Realistic multi-cellular dosimetry for sup 177 / sup Lu-labelled antibodies: model and application. Physics in Medicine and Biology, 2016, 61, 6935-6952.	3.0	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.	7.2	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.	0.3	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.	1.6	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.	3.8	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.	3.0	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.	1.6	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.	3.0	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.	1.2	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.	0.8	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.	1.6	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.	1.6	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.	3.0	6
38	On the Role of Single Particle Irradiation and Fast Timing for Efficient Online-Control in Particle Therapy. Frontiers in Physics, 2020, 8, .	2.1	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.	3.0	3
41	xmins:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e167" altimg="si5.svg"> <mml:mrow><mml:mi>î³</mml:mi><mml:mo linebreak="goodbreak" linebreakstyle="after">a^'</mml:mo><mml:mi>î³</mml:mi></mml:mrow> timing with LaBr <mml:math <="" display="inline" id="d1e177" td="" willows:mml="http://www.w3.org/1998/Math/MathML"><td>1.6</td><td>3</td></mml:math>	1.6	3
42	altimg="si56.svg"> <mml:mrsub><mml:mrow ><mml:mrow><mml:mn>3</mml:mn></mml:mrow>Novel Silicon Photomultipliers for PET Application., 2006,,.</mml:mrow </mml:mrsub>		2
43	Comparison of different reconstruction methods for planar images in small gamma cameras. Journal of Instrumentation, 2011, 6, C01030-C01030.	1.2	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.	3.9	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.	1.6	1
50	Production and characterization of large-size diamond detectors for particle tracking and medical applications. , 2018, , .		0